

Report of Test

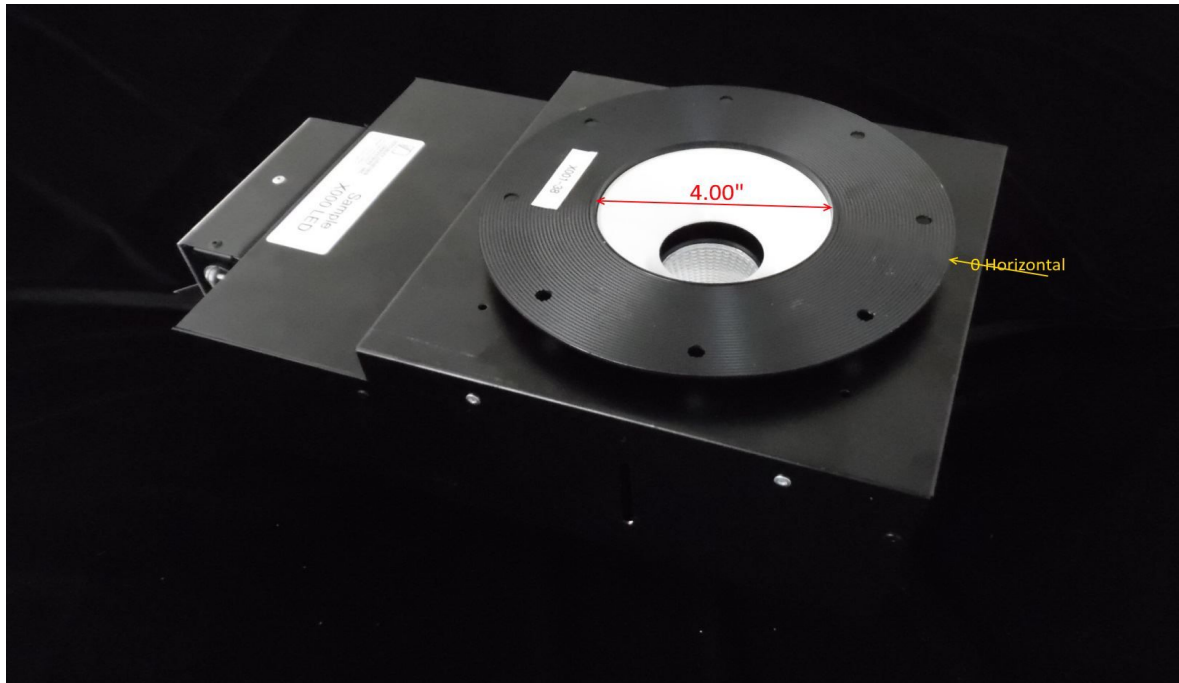
LLIA000551-001

Catalog Number: X001

Aluminum heat sink with plastic specular reflector below LED, round white flangeless trim installed in black formed aluminum recessed housing with adjustable ceiling collar

One white LED

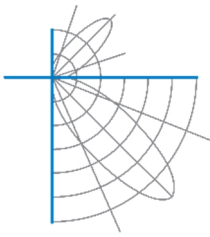
One eldoLED SOLOdriver 561/S, 500mA/May x02015, LED driver
120.0Vac, 60.0Hz, 0.1837A, 20.98W, 0.952PF, 5.44%THD(i)



Performance Summary

Total Light Output	946 lm
Luminaire Power	21.0 W
Luminous Efficacy	45.0 lm/W

PREPARED FOR : Specialty Lighting Industries, Inc., 1306 Doris Avenue, Ocean, NJ



Test Report No. LLIA000551-001

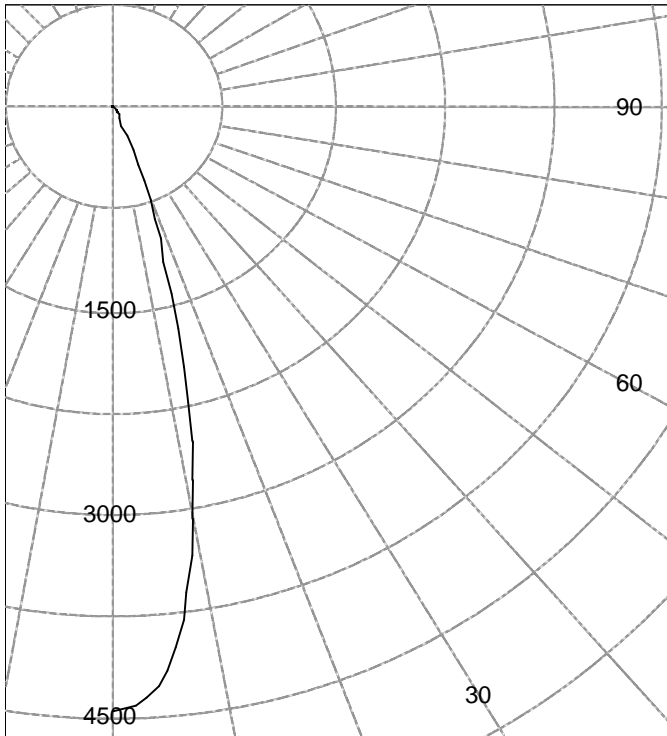
Catalog Number: X001

Aluminum heat sink with plastic specular reflector below LED, round white flangeless trim installed in black formed aluminum recessed housing with adjustable ceiling collar

One white LED

One eldoLED SOLOdriver 561/S, 500mA/May x02015, LED driver
120.0Vac, 60.0Hz, 0.1837A, 20.98W, 0.952PF, 5.44% THD(i)

Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	1313
55.0	569
65.0	435
75.0	87
85.0	70

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	4447		90	0	
5	4161	362	95	0	0
10	3086		100	0	0
15	1690	462	105	0	0
20	720		110	0	0
25	141	97	115	0	0
30	36		120	0	0
35	23	15	125	0	0
40	14		130	0	0
45	8	6	135	0	0
50	4		140	0	0
55	3	2	145	0	0
60	1		150	0	0
65	1	1	155	0	0
70	1		160	0	0
75	0	0	165	0	0
80	0		170	0	0
85	0	0	175	0	0
90	0		180	0	0

ZONAL FLUX AND PERCENTAGES

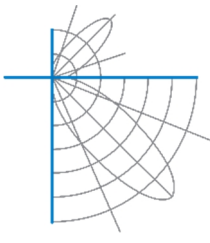
Zone	Flux (lm)	%Lamp	%Luminaire
0-30	921	N / A	97.4
0-40	935	N / A	98.9
0-60	944	N / A	99.8
0-90	946	N / A	100.0
40-90	10	N / A	1.1
60-90	2	N / A	0.2
90-180	0	N / A	0.0
0-180	946	N / A	100.0

Total Light Output = 946 lm

Signed:

Michael L. Grather
Authorized Signatory

Date of test 14-Mar-2016
Date of report 14-Mar-2016



Test Report No. LLIA000551-001

Catalog Number: X001

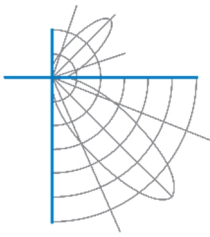
Aluminum heat sink with plastic specular reflector below LED, round white flangeless trim installed in black formed aluminum recessed housing with adjustable ceiling collar

One white LED

One eldoLED SOLOdriver 561/S, 500mA/May x02015, LED driver
120.0Vac, 60.0Hz, 0.1837A, 20.98W, 0.952PF, 5.44%THD(i)

Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	4447		90.0	0	
2.5	4396		92.5	0	
5.0	4161	362	95.0	0	
7.5	3713		97.5	0	0
10.0	3086		100.0	0	
12.5	2383		102.5	0	
15.0	1690	462	105.0	0	
17.5	1098		107.5	0	0
20.0	720		110.0	0	
22.5	384		112.5	0	
25.0	141	97	115.0	0	
27.5	49		117.5	0	0
30.0	36		120.0	0	
32.5	29		122.5	0	
35.0	23	15	125.0	0	
37.5	18		127.5	0	0
40.0	14		130.0	0	
42.5	10		132.5	0	
45.0	8	6	135.0	0	
47.5	5		137.5	0	0
50.0	4		140.0	0	
52.5	3		142.5	0	
55.0	3	2	145.0	0	
57.5	2		147.5	0	0
60.0	1		150.0	0	
62.5	2		152.5	0	
65.0	1	1	155.0	0	
67.5	1		157.5	0	0
70.0	1		160.0	0	
72.5	0		162.5	0	
75.0	0	0	165.0	0	
77.5	0		167.5	0	0
80.0	0		170.0	0	
82.5	0		172.5	0	
85.0	0	0	175.0	0	
87.5	0		177.5	0	0
90.0	0		180.0	0	



Test Number: LLIA000551-001

Catalog Number: X001

Aluminum heat sink with plastic specular reflector below LED, round white flangeless trim installed in black formed aluminum recessed housing with adjustable ceiling collar

One white LED

One eldoLED SOLOdriver 561/S, 500mA/May x02015, LED driver

120.0Vac, 60.0Hz, 0.1837A, 20.98W, 0.952PF, 5.44%THD(i)

Coefficients Of Utilization - Zonal Cavity Method

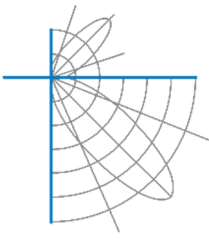
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	96	93	90	87	87	84	82	79	68	66	65	53	52	51	39	39	39	32
2	90	84	79	75	81	77	73	70	63	60	58	50	48	47	38	37	37	31
3	84	77	71	67	76	70	66	62	58	55	53	47	45	44	37	36	35	31
4	79	70	64	60	72	65	60	56	54	51	48	44	42	41	35	34	33	30
5	74	65	59	54	68	60	55	51	51	47	45	42	40	38	34	33	32	29
6	70	61	54	50	64	56	51	47	48	44	42	40	38	36	33	32	31	28
7	66	57	50	46	61	53	47	44	45	42	39	39	36	34	32	31	30	27
8	63	53	47	43	58	50	44	41	43	39	37	37	35	33	31	30	29	27
9	60	50	44	40	55	47	42	39	41	38	35	36	33	32	30	29	28	26
10	57	47	42	38	53	45	40	36	39	36	33	34	32	30	30	28	27	26

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	123.5	2.66	2.66
8.0	69.5	3.54	3.54
10.0	44.5	4.43	4.43
12.0	30.9	5.31	5.31
14.0	22.7	6.20	6.20
16.0	17.4	7.08	7.08



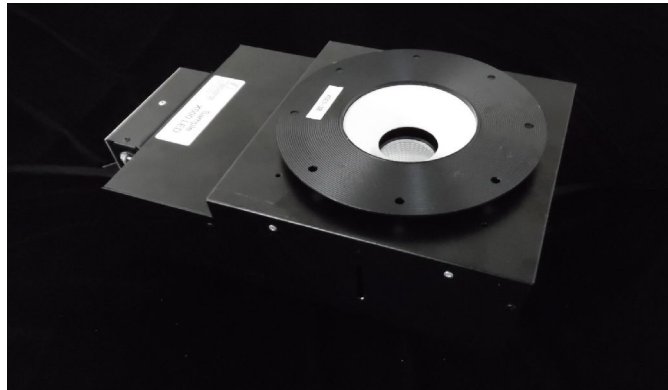
Test Report No. LLIA000551-001

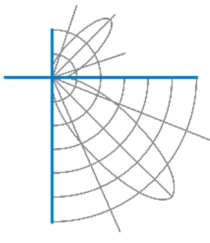
Catalog Number: X001

Aluminum heat sink with plastic specular reflector below LED, round white flangeless trim installed in black formed aluminum recessed housing with adjustable ceiling collar

One white LED

One eldoLED SOLOdriver 561/S, 500mA/May x02015, LED driver
120.0Vac, 60.0Hz, 0.1837A, 20.98W, 0.952PF, 5.44% THD(i)





Test Report No. LLIA000551-001

Catalog Number: X001

Aluminum heat sink with plastic specular reflector below LED, round white flangeless trim installed in black formed aluminum recessed housing with adjustable ceiling collar

One white LED

One eldoLED SOLOdriver 561/S, 500mA/May x02015, LED driver
120.0Vac, 60.0Hz, 0.1837A, 20.98W, 0.952PF, 5.44%THD(i)

Test Distance 9.5 m
Test Temperature 24.3 °C

Notes The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2011, ANSI C82.77:2002.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.