UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300

Photometric Indoor Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Specialty Lighting Industries, Inc
Awi Salomon
1306 Doris Ave.
Ocean, NJ 07712-4041

Catalog Number
1240-LEDB
Project Number
10555556
Test Number
813671

Test Date

2014-11-13

Prepared By

Derek Smarr, Technician

Approved By

Kyle Spaziani, Project Handler

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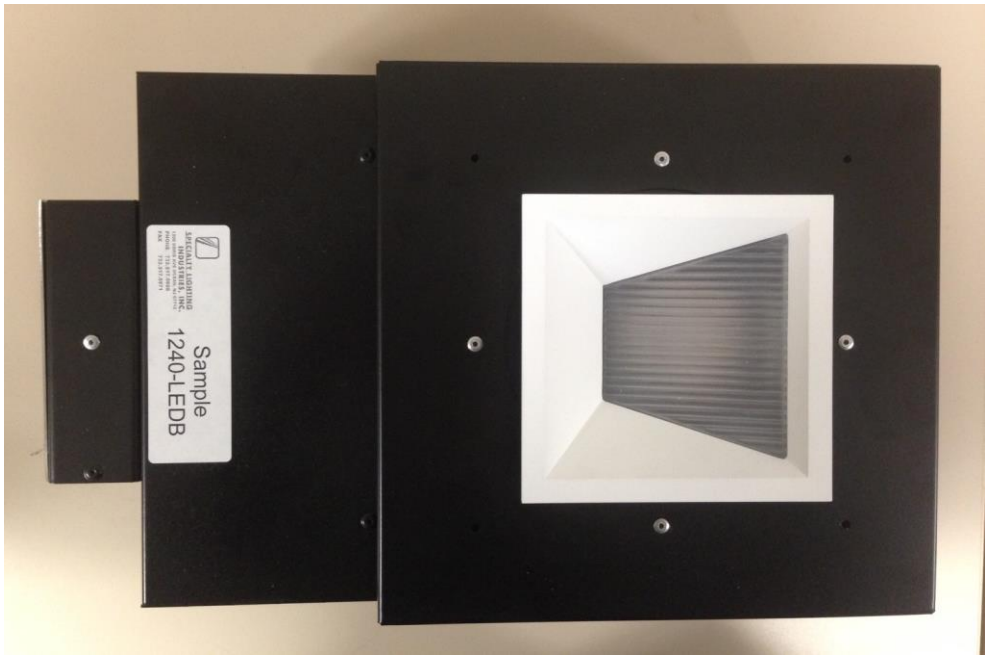
Luminaire Description:	Black aluminum housing, patterned plastic specular reflector above white enamel aluminum reflector, frosted linear prismatic lens
Catalog Number:	1240-LEDB
Lamp:	One white LED array
Mounting:	Recessed
Ballast/Driver:	One CoolLED CL33-700S2A-UNI-B

Luminaire



Test Conditions

Test Temperature:	24.6	°C
Voltage:	120.0	VAC
Current:	0.2220	A
Power:	26.37	W
Power Factor:	0.990	
Frequency:	60	Hz
Current THD:	6.39	%

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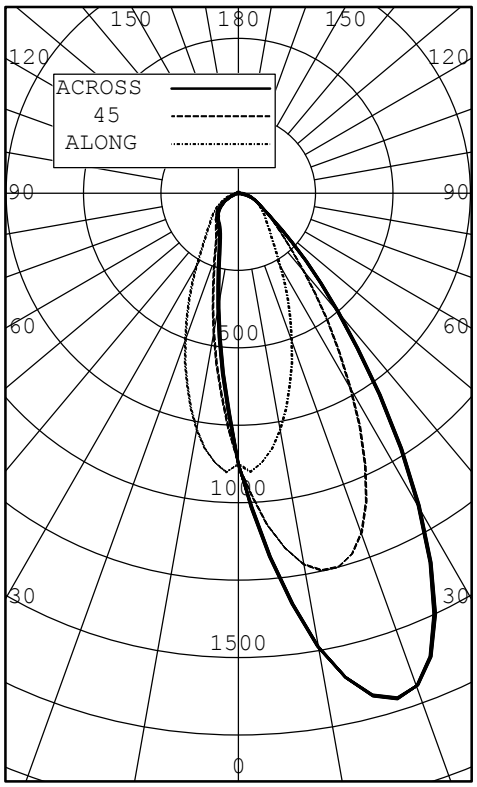

INTENSITY(CANDLEPOWER) SUMMARY

ANGLE	ALONG	BEAM SIDE 67.5	45	22.5	ACROSS	OUTPUT LUMENS
0	875	875	875	875	875	
5	874	968	1074	1150	1179	53
10	777	983	1217	1409	1487	
15	642	915	1251	1555	1680	169
20	504	784	1164	1532	1692	
25	378	618	971	1336	1501	217
30	271	451	724	1028	1166	
35	200	315	499	705	795	158
40	156	221	327	451	502	
45	129	162	219	284	310	87
50	110	126	155	182	182	
55	92	102	119	122	118	51
60	74	84	91	91	87	
65	58	65	70	71	68	33
70	40	47	51	54	52	
75	21	27	32	36	36	16
80	7	10	15	18	19	
85	1	2	3	4	5	2
90	0	0	0	0	0	

BOTH SIDES
ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	568	53.45
0-40	769	72.41
0-60	983	92.50
0-90	1063	100.00
40-90	293	27.59
60-90	80	7.50
90-180	0	0.00
0-180	1063	100.00

EFFICACY (LUMENS PER WATT): 40.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 4.000 INS
WIDTH: 4.000 INS

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	BEAM SIDE ALONG	45	ACROSS
45	17673	30131	42619
55	15538	20226	19988
65	13295	16010	15531
75	7860	11916	13488
85	1111	2785	5021

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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BEAM SIDE
INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	LUMENS
0.0	875	875	875	875	875	875	
2.5	901	930	975	1005	1017	967	
5.0	874	968	1074	1150	1179	1054	53
7.5	832	987	1156	1289	1338	1129	
10.0	777	983	1217	1409	1487	1185	
12.5	712	958	1249	1500	1602	1216	
15.0	642	915	1251	1555	1680	1220	169
17.5	575	856	1222	1566	1712	1197	
20.0	504	784	1164	1532	1692	1144	
22.5	440	701	1078	1452	1621	1066	
25.0	378	618	971	1336	1501	966	217
27.5	321	534	849	1189	1345	851	
30.0	271	451	724	1028	1166	730	
32.5	231	377	606	862	978	613	
35.0	200	315	499	705	795	504	158
37.5	175	263	405	569	633	410	
40.0	156	221	327	451	502	332	
42.5	141	187	267	357	394	270	
45.0	129	162	219	284	310	221	87
47.5	119	142	183	228	237	183	
50.0	110	126	155	182	182	152	
52.5	101	113	135	147	143	129	
55.0	92	102	119	122	118	112	51
57.5	83	92	104	105	100	98	
60.0	74	84	91	91	87	87	
62.5	66	75	80	80	76	76	
65.0	58	65	70	71	68	67	33
67.5	49	56	60	62	60	58	
70.0	40	47	51	54	52	49	
72.5	30	37	41	45	44	40	
75.0	21	27	32	36	36	31	16
77.5	13	17	23	27	27	22	
80.0	7	10	15	18	19	14	
82.5	3	4	7	10	11	7	
85.0	1	2	3	4	5	3	2
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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OPPOSITE SIDE TO BEAM
INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT
	ALONG	112.5	135	157.5	ACROSS	AVERAGE	LUMENS
0.0	875	875	875	875	875	875	
2.5	901	811	759	726	711	775	
5.0	874	734	651	601	584	679	30
7.5	832	653	554	492	470	587	
10.0	777	576	462	398	378	503	
12.5	712	500	383	323	304	428	
15.0	642	430	319	265	249	365	51
17.5	575	367	268	222	209	312	
20.0	504	314	228	190	180	268	
22.5	440	269	197	167	159	233	
25.0	378	231	173	150	143	204	47
27.5	321	201	156	138	132	181	
30.0	271	178	144	130	125	162	
32.5	231	160	134	123	119	148	
35.0	200	145	126	118	114	136	43
37.5	175	134	119	113	110	127	
40.0	156	125	113	108	105	119	
42.5	141	118	107	103	101	112	
45.0	129	112	102	97	95	106	41
47.5	119	106	97	91	89	100	
50.0	110	100	91	85	82	93	
52.5	101	92	85	77	74	85	
55.0	92	83	78	69	66	77	34
57.5	83	75	69	61	57	69	
60.0	74	67	60	52	48	60	
62.5	66	59	51	43	39	51	
65.0	58	50	42	34	30	42	21
67.5	49	41	32	25	20	33	
70.0	40	33	23	15	12	24	
72.5	30	24	14	9	9	17	
75.0	21	16	7	7	7	11	6
77.5	13	9	5	5	5	7	
80.0	7	4	3	3	3	4	
82.5	3	2	2	2	2	2	
85.0	1	1	1	1	1	1	1
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	90				80				70				50			30			10			0
WALL	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																						
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.11	1.09	1.06	1.13	1.09	1.07	1.04	1.10	1.07	1.05	1.02	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.93	0.92
2	1.08	1.03	0.98	0.94	1.06	1.01	0.97	0.93	1.04	0.99	0.95	0.92	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.84
3	1.02	0.94	0.89	0.84	1.00	0.93	0.88	0.83	0.98	0.92	0.87	0.83	0.89	0.85	0.81	0.87	0.83	0.80	0.84	0.82	0.79	0.77
4	0.97	0.88	0.81	0.77	0.95	0.87	0.81	0.76	0.93	0.86	0.80	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.71
5	0.91	0.82	0.75	0.70	0.90	0.81	0.74	0.69	0.88	0.79	0.73	0.69	0.77	0.72	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.66
6	0.86	0.76	0.69	0.64	0.85	0.75	0.68	0.64	0.83	0.74	0.68	0.64	0.73	0.67	0.63	0.71	0.66	0.63	0.70	0.65	0.62	0.61
7	0.81	0.70	0.64	0.59	0.80	0.70	0.63	0.59	0.78	0.69	0.63	0.58	0.68	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.57	0.56
8	0.77	0.66	0.59	0.55	0.76	0.65	0.59	0.54	0.74	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.52
9	0.72	0.62	0.55	0.50	0.71	0.61	0.55	0.50	0.70	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.49	0.48
10	0.69	0.58	0.51	0.47	0.68	0.57	0.51	0.47	0.67	0.57	0.51	0.47	0.56	0.50	0.46	0.55	0.50	0.46	0.54	0.49	0.46	0.45

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.