



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014

Prepared For
Scott Lamp Co Inc

Ray Berg
355 Watt Dr.
Fairfield, CA 94534-4207
United States

Catalog Number

S3A75-L12-35K-BA-FEC

Order Number
13791490
Test Number
13791490.21

Test Date

2021-04-27

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Rectangular gray metal housing with diffuse plastic lens
Lamp: White LED array
Mounting: Surface – Wall
Ballast/Driver: One (1) OSRAM OTi 30/120-277/1A0 DIM-1 L G2

Luminaire



Luminaire Characteristics

Luminous Length: 2.25 in.
Luminous Width: 2.750 in.
Luminous Height: 18.75 in.

Summary of Results

Total Luminaire Output: 1014 Lumens
Luminaire Efficacy: 80.8 lm/w
Maximum Candela: 167 Candela

Test Conditions

Test Temperature: 24.6 °C
Voltage: 120.1 VAC
Current: 0.1079 A
Power: 12.54 W
Power Factor: 0.968
Frequency: 60 Hz
Current THD: 12.2 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

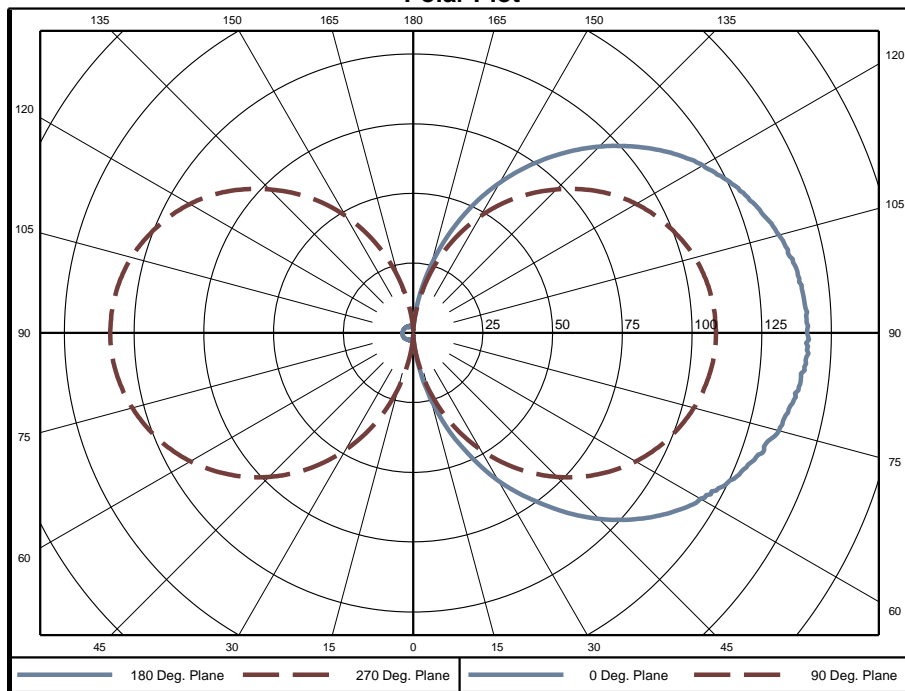
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.1079 A	12.54 W	0.968	60 Hz	12.2 %

Summary of Results

Spacing Criteria	Total Lumen Output:	1014 Lumens
0-180: 12.42	Luminaire Efficacy:	80.8 lm/w
90-270: 11.34	Maximum Candela:	167 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)		
Crosswise: 22.6	Endwise: 19.5	

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.06	0.0%	60-65	45.05	4.4%	120-125	40.49	4.0%
5-10	0.51	0.1%	65-70	49.17	4.8%	125-130	35.36	3.5%
10-15	1.74	0.2%	70-75	52.67	5.2%	130-135	30.05	3.0%
15-20	3.84	0.4%	75-80	55.43	5.5%	135-140	24.75	2.4%
20-25	6.81	0.7%	80-85	57.39	5.7%	140-145	19.65	1.9%
25-30	10.52	1.0%	85-90	58.43	5.8%	145-150	14.87	1.5%
30-35	14.85	1.5%	90-95	58.43	5.8%	150-155	10.52	1.0%
35-40	19.67	1.9%	95-100	57.51	5.7%	155-160	6.81	0.7%
40-45	24.82	2.4%	100-105	55.64	5.5%	160-165	3.85	0.4%
45-50	30.12	3.0%	105-110	52.88	5.2%	165-170	1.74	0.2%
50-55	35.34	3.5%	110-115	49.32	4.9%	170-175	0.52	0.1%
55-60	40.38	4.0%	115-120	45.13	4.5%	175-180	0.06	0.0%

Zone	Lumens	% of Luminaire
0-40	58	5.7%
0-60	189	18.6%
0-90	507	50.0%
90-180	508	50.1%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5	4.8	5.4	5.0	4.1	4.0	3.7	2.8	2.0	1.9	2.0	2.8	3.7	4.0	4.1	5.0	5.4
10	13.3	15.2	14.5	12.1	11.2	10.3	6.9	3.3	2.3	3.3	6.9	10.3	11.2	12.1	14.5	15.2
15	25.3	28.3	27.6	23.2	20.5	19.0	12.7	5.1	2.6	5.1	12.7	19.0	20.5	23.2	27.6	28.3
20	37.3	41.9	41.7	34.7	29.9	27.8	18.8	6.8	2.7	6.8	18.8	27.8	29.9	34.7	41.7	41.9
25	49.0	56.0	56.2	46.9	39.3	36.8	25.1	8.8	2.9	8.8	25.1	36.8	39.3	46.9	56.2	56.0
30	61.5	69.7	70.5	59.1	48.4	45.4	31.4	10.7	3.0	10.7	31.4	45.4	48.4	59.1	70.5	69.7
35	72.5	83.0	84.5	70.9	57.2	53.7	37.4	12.6	3.0	12.6	37.4	53.7	57.2	70.9	84.5	83.0
40	83.7	95.9	97.9	82.2	65.4	61.6	43.1	14.6	3.1	14.6	43.1	61.6	65.4	82.2	97.9	95.9
45	94.4	107.8	110.3	92.8	73.1	68.9	48.5	16.5	3.3	16.5	48.5	68.9	73.1	92.8	110.3	107.8
50	104.0	118.9	121.2	102.5	80.1	75.6	53.2	18.3	3.4	18.3	53.2	75.6	80.1	102.5	121.2	118.9
55	112.5	128.5	131.7	111.6	86.5	81.7	57.7	20.0	3.6	20.0	57.7	81.7	86.5	111.6	131.7	128.5
60	119.0	137.6	140.7	119.2	92.2	87.2	61.6	21.6	3.7	21.6	61.6	87.2	92.2	119.2	140.7	137.6
65	125.3	144.9	148.4	125.8	97.0	91.7	65.0	23.0	3.7	23.0	65.0	91.7	97.0	125.8	148.4	144.9
70	130.8	150.8	154.5	131.3	101.0	95.5	67.6	24.1	3.8	24.1	67.6	95.5	101.0	131.3	154.5	150.8
75	135.8	156.2	159.7	136.3	104.1	98.5	69.8	25.1	3.9	25.1	69.8	98.5	104.1	136.3	159.7	156.2
80	138.6	159.9	163.3	139.8	106.6	100.8	71.5	25.8	3.9	25.8	71.5	100.8	106.6	139.8	163.3	159.9
85	140.8	161.6	165.8	141.2	108.0	102.2	72.6	26.3	3.9	26.3	72.6	102.2	108.0	141.2	165.8	161.6
90	141.2	162.8	166.3	142.4	108.6	102.8	73.0	26.6	3.9	26.6	73.0	102.8	108.6	142.4	166.3	162.8
95	140.6	162.0	165.9	141.5	108.1	102.3	72.8	26.7	3.8	26.7	72.8	102.3	108.1	141.5	165.9	162.0
100	139.0	159.9	163.7	139.6	106.8	101.0	72.0	26.3	3.7	26.3	72.0	101.0	106.8	139.6	163.7	159.9
105	135.7	156.3	160.5	135.8	104.5	99.0	70.5	25.8	3.8	25.8	70.5	99.0	104.5	135.8	160.5	156.3
110	131.4	150.6	154.8	131.7	101.2	95.9	68.3	24.9	3.6	24.9	68.3	95.9	101.2	131.7	154.8	150.6
115	126.2	144.2	148.2	126.1	97.2	92.0	65.6	23.8	3.5	23.8	65.6	92.0	97.2	126.1	148.2	144.2
120	120.0	136.0	140.2	119.3	92.4	87.4	62.3	22.6	3.5	22.6	62.3	87.4	92.4	119.3	140.2	136.0
125	112.7	127.5	131.0	111.7	86.7	82.1	58.6	21.2	3.4	21.2	58.6	82.1	86.7	111.7	131.0	127.5
130	103.9	117.4	120.5	102.4	80.0	75.9	54.1	19.5	3.2	19.5	54.1	75.9	80.0	102.4	120.5	117.4
135	94.4	106.0	109.0	92.4	72.8	69.0	49.2	17.8	3.0	17.8	49.2	69.0	72.8	92.4	109.0	106.0
140	84.2	93.9	96.7	82.0	65.1	61.7	44.1	15.9	2.8	15.9	44.1	61.7	65.1	82.0	96.7	93.9
145	73.6	81.4	83.6	70.7	57.1	54.1	38.6	14.1	2.9	14.1	38.6	54.1	57.1	70.7	83.6	81.4
150	62.1	67.9	69.6	58.9	48.4	45.8	32.6	12.1	2.8	12.1	32.6	45.8	48.4	58.9	69.6	67.9
155	50.4	54.0	55.0	46.9	39.3	37.1	26.4	10.0	2.7	10.0	26.4	37.1	39.3	46.9	55.0	54.0
160	37.9	40.1	40.5	34.7	29.9	28.2	20.0	7.9	2.6	7.9	20.0	28.2	29.9	34.7	40.5	40.1
165	25.6	26.4	26.4	22.9	20.4	19.3	13.8	5.9	2.5	5.9	13.8	19.3	20.4	22.9	26.4	26.4
170	14.3	14.1	13.8	12.3	11.4	10.9	8.1	4.1	2.2	4.1	8.1	10.9	11.4	12.3	13.8	14.1
175	5.1	4.7	4.5	4.1	4.2	4.1	3.5	2.5	1.8	2.5	3.5	4.1	4.2	4.1	4.5	4.7
180	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

	0	45	90
0	280	280	280
45	3583	3337	3313
55	3810	3529	3519
65	3936	3668	3682
75	4094	3771	3811
85	4203	3861	3934

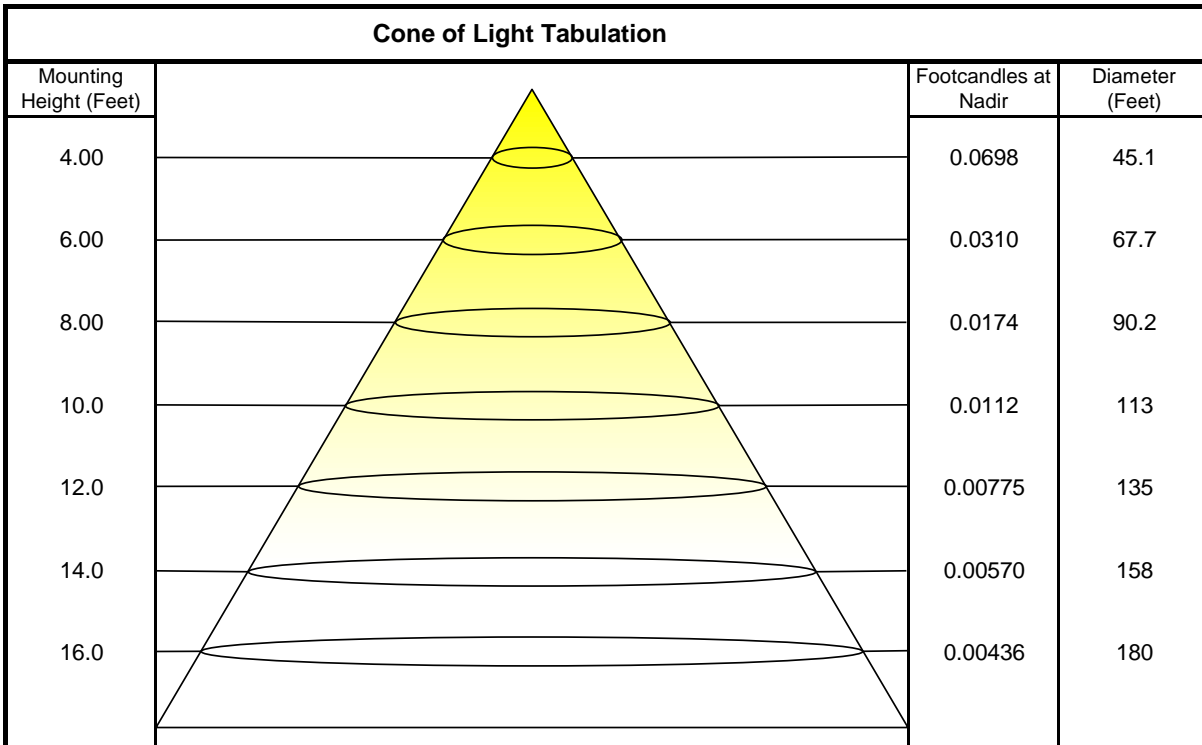


Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	85	79	73	84	78	72	67	64	60	56	52	49	46	40	38	36	30
2	81	71	62	55	74	65	57	51	53	47	42	42	38	34	32	29	26	21
3	73	60	51	43	66	55	47	40	45	38	33	35	30	26	27	23	19	15
4	66	52	43	35	59	48	39	32	39	32	26	30	25	21	23	19	15	11
5	60	46	36	29	54	42	33	26	34	27	22	27	21	17	20	16	12	9
6	55	40	31	24	49	37	28	22	30	23	18	24	18	14	18	13	10	7
7	50	36	27	21	45	33	25	19	27	20	15	21	16	12	16	12	8	5
8	46	32	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3

Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	1.1 Candela
Central Cone Intensity:	#REF! Candela
Beam Flux:	1014.4 Lumens
Beam Angle (0-180):	#REF! Degrees
Beam Angle (90-270):	#REF! Degrees
Field Angle (0-180):	#REF! Degrees
Field Angle (90-270):	#REF! Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet

