

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P284579

Luminaire Tested: **4SNLED-LD5-29SL-SLW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-29SL-SLW-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2969.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

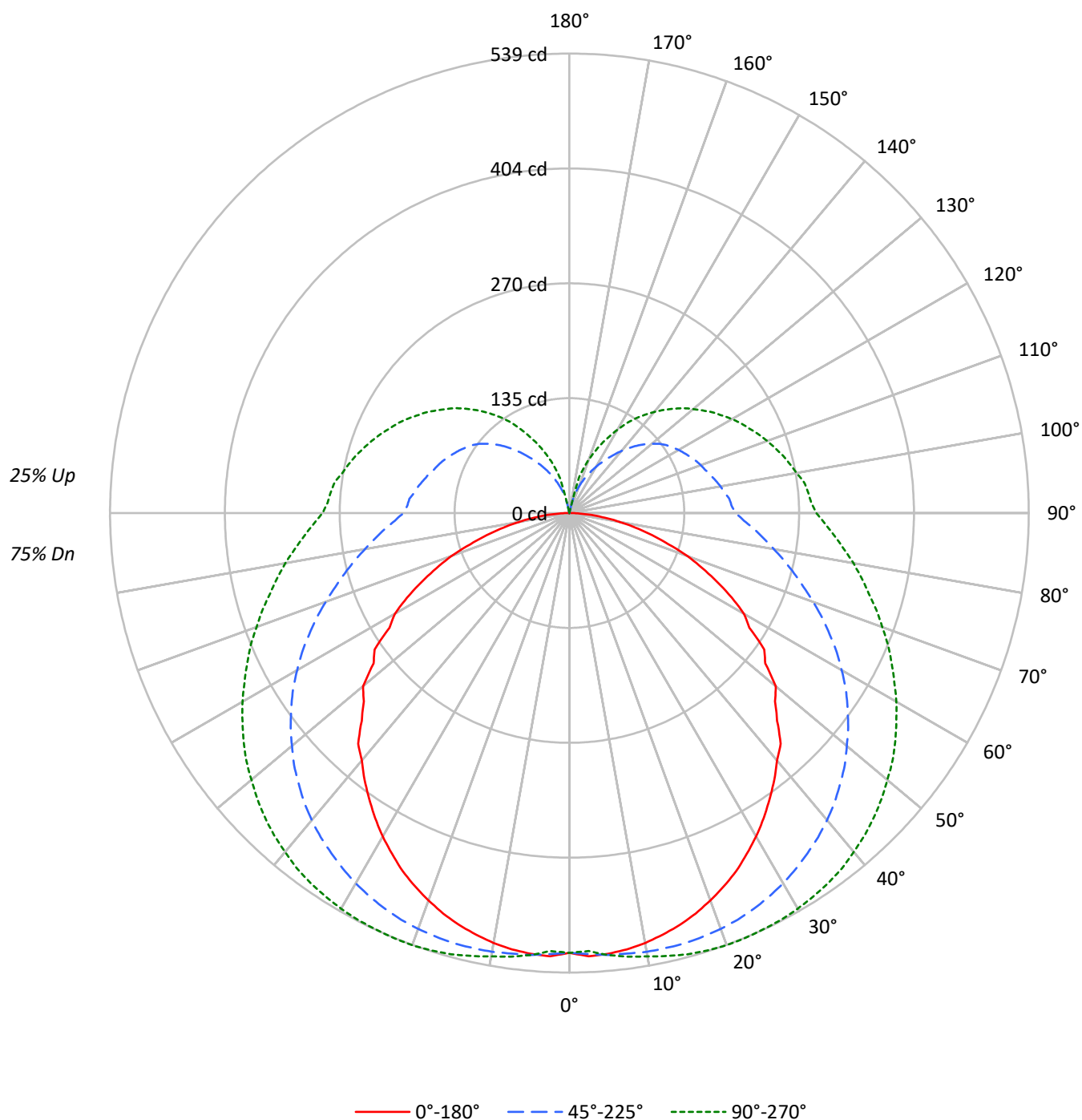
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79			75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60			56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48			44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39			36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33			30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28			25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24			22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21			19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19			17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17			15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4167	4167	4167
5°	4199	4118	4087
10°	4179	4081	4064
15°	4150	4059	4073
20°	4111	4040	4081
25°	4072	4026	4087
30°	4016	4013	4109
35°	3953	3999	4137
40°	3894	3997	4164
45°	3820	3987	4197
50°	3831	3978	4230
55°	3763	3979	4281
60°	3626	3981	4339
65°	3425	3986	4420
70°	3203	4015	4544
75°	2810	4109	4727
80°	2376	4306	5032
85°	1763	4707	5477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.7
10°-20°	146.9	4.9
20°-30°	233.4	7.9
30°-40°	299.6	10.1
40°-50°	338.3	11.4
50°-60°	345.2	11.6
60°-70°	319.8	10.8
70°-80°	270.8	9.1
80°-90°	216.1	7.3
90°-100°	183.5	6.2
100°-110°	163.5	5.5
110°-120°	139.3	4.7
120°-130°	110.6	3.7
130°-140°	78.5	2.6
140°-150°	46.9	1.6
150°-160°	21.9	0.7
160°-170°	5.2	0.2
170°-180°	0.0	0.0
0°-30°	429.9	14.5
0°-40°	729.5	24.6
0°-60°	1413.0	47.6
0°-90°	2219.7	74.8
90°-120°	486.3	16.4
90°-150°	722.3	24.3
90°-180°	749.0	25.2
0°-180°	2969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	519	515	520	520	520	49
15°	500	504	523	532	536	141
25°	463	479	512	530	539	213
35°	410	440	487	517	530	256
45°	345	391	449	488	505	268
55°	279	326	398	447	467	245
65°	191	255	337	395	417	190
75°	100	178	273	340	364	107
85°	26	114	218	288	312	28
90°	1	94	195	265	290	2
95°	0	88	188	257	281	0
105°	0	81	172	236	260	0
115°	0	75	156	213	234	0
125°	0	65	139	188	206	0
135°	0	48	112	158	173	0
145°	0	31	78	119	135	0
155°	1	20	48	72	90	0
165°	1	10	22	30	42	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.7	515.7	515.7	515.7	515.7
2.5°	520.4	514.9	517.7	517.0	514.2
5°	519.0	514.9	520.4	520.4	520.4
7.5°	516.2	513.4	521.1	523.9	524.7
10°	512.1	512.1	522.6	526.8	528.1
12.5°	506.4	508.5	522.6	528.8	532.2
15°	500.2	504.4	522.6	532.2	535.8
17.5°	492.5	499.5	521.1	533.0	537.9
20°	483.5	494.0	519.0	533.0	539.4
22.5°	473.7	487.0	516.2	531.7	539.4
25°	463.3	478.6	512.1	530.2	538.6
27.5°	450.7	470.3	507.2	528.1	537.9
30°	438.1	460.5	501.5	525.3	535.8
32.5°	424.2	450.0	494.6	521.1	533.0
35°	409.5	439.6	487.0	517.0	529.6
37.5°	394.8	427.0	479.3	511.3	525.3
40°	378.8	414.4	470.3	504.4	519.0
42.5°	366.9	401.2	460.5	497.4	512.8
45°	344.7	391.4	449.2	488.4	505.1
47.5°	327.2	372.6	438.1	479.3	496.6
50°	316.1	357.1	424.9	468.8	487.0
52.5°	289.6	346.8	412.3	458.4	477.8
55°	279.0	325.9	398.4	447.1	466.7
57.5°	250.4	311.2	384.4	434.7	454.8
60°	236.5	290.9	369.0	422.1	443.0
62.5°	214.8	273.5	353.8	408.2	429.8
65°	191.1	254.7	337.0	394.8	417.2
67.5°	168.9	235.9	321.0	380.9	404.6
70°	147.2	216.3	304.2	366.9	390.7
72.5°	122.0	196.7	288.0	353.8	377.5
75°	100.5	177.9	272.8	339.8	363.5
77.5°	79.4	159.8	258.1	327.2	350.9
80°	60.1	142.3	243.4	314.0	338.3
82.5°	41.8	127.6	230.2	301.4	325.1
85°	25.8	114.5	217.6	288.0	312.5
87.5°	11.9	102.6	205.0	275.6	300.7
90°	1.3	93.6	194.7	265.1	289.6
92.5°	0.8	90.7	190.5	260.2	283.9
95°	0.0	87.9	188.5	257.4	281.1
97.5°	0.0	85.1	183.6	253.2	277.7
100°	0.0	83.8	180.0	247.0	270.7
102.5°	0.0	81.7	175.8	241.4	265.1
105°	0.0	81.0	171.7	236.5	259.6
107.5°	0.0	79.4	167.4	230.2	253.2
110°	0.0	78.1	164.0	224.6	247.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	76.8	160.4	219.1	240.6
115°	0.0	75.3	156.3	212.7	233.6
117.5°	0.0	73.2	152.1	206.5	227.4
120°	0.0	70.4	148.0	200.9	220.5
122.5°	0.0	67.6	143.6	193.9	212.7
125°	0.0	65.0	138.8	187.7	205.8
127.5°	0.0	60.6	133.3	180.7	197.5
130°	0.0	56.5	126.3	173.8	189.8
132.5°	0.8	52.3	119.4	166.1	182.1
135°	0.0	48.2	111.6	158.3	173.0
137.5°	0.0	44.6	103.2	150.0	164.0
140°	0.0	40.5	94.9	140.3	154.9
142.5°	0.0	35.6	86.6	129.7	145.2
145°	0.0	31.4	78.1	118.6	135.4
147.5°	0.8	27.9	70.4	106.7	124.8
150°	0.8	25.0	62.9	94.9	113.0
152.5°	0.8	22.4	55.2	83.8	101.1
155°	0.8	19.6	48.2	72.5	90.0
157.5°	0.8	16.8	40.5	61.4	78.1
160°	0.8	14.7	33.5	51.6	67.0
162.5°	0.8	12.6	27.3	40.5	55.2
165°	0.8	10.5	21.7	29.9	42.5
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)