

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: P183809

Luminaire Tested: **24SR-LD2-29-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-29-S-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2955.7 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

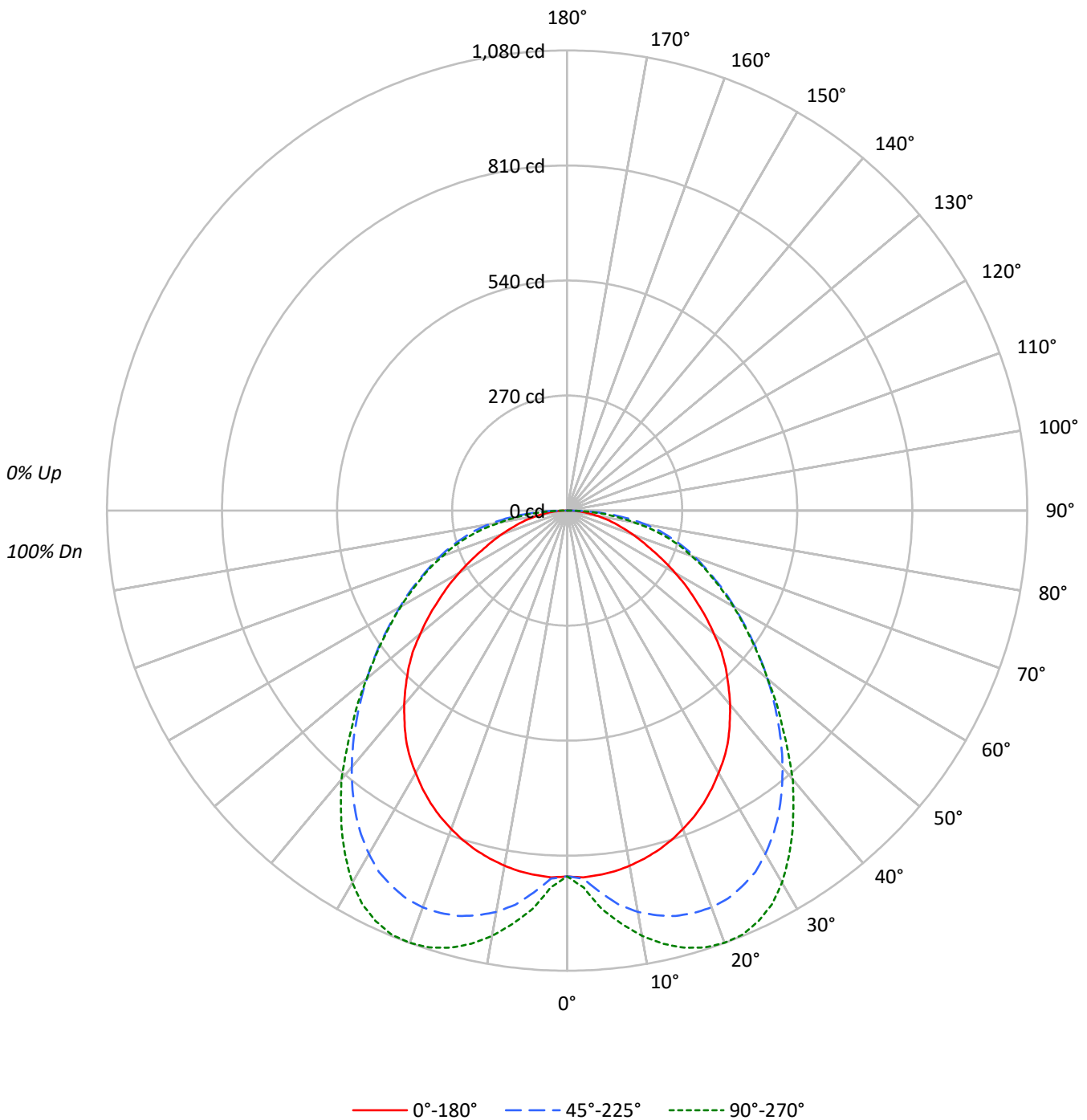
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1155	1155	1155
5°	1159	1216	1268
10°	1156	1307	1385
15°	1150	1372	1479
20°	1138	1419	1546
25°	1125	1444	1578
30°	1105	1445	1567
35°	1082	1423	1514
40°	1045	1381	1447
45°	1003	1331	1358
50°	942	1285	1285
55°	867	1245	1237
60°	789	1220	1213
65°	701	1220	1203
70°	645	1255	1218
75°	599	1330	1262
80°	564	1451	1230
85°	548	1565	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.0
10°-20°	274.7	9.3
20°-30°	437.4	14.8
30°-40°	521.7	17.6
40°-50°	513.9	17.4
50°-60°	443.8	15.0
60°-70°	346.4	11.7
70°-80°	237.3	8.0
80°-90°	93.1	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	799.5	27.1
0°-40°	1321.2	44.7
0°-60°	2278.9	77.1
0°-90°	2955.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2955.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	858	874	900	934	939	82
15°	825	913	985	1046	1062	233
25°	758	877	973	1046	1063	349
35°	659	771	866	916	922	411
45°	527	623	700	720	714	406
55°	369	468	531	532	527	331
65°	220	330	383	382	378	221
75°	115	224	256	245	243	122
85°	36	108	101	87	83	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.4	858.4	858.4	858.4	858.4
2.5°	861.8	862.7	864.4	881.8	885.3
5°	858.4	874.0	900.0	933.8	939.0
7.5°	854.0	888.7	932.9	969.4	978.0
10°	846.2	903.5	956.4	1002.3	1013.6
12.5°	836.7	911.3	972.8	1026.6	1041.3
15°	825.4	913.0	985.0	1046.5	1062.1
17.5°	811.6	910.4	990.2	1057.8	1075.1
20°	795.1	903.5	991.0	1062.1	1079.5
22.5°	777.7	893.1	985.8	1058.7	1076.9
25°	757.8	877.4	972.8	1046.5	1063.0
27.5°	735.3	855.8	956.4	1025.7	1041.3
30°	711.0	830.6	930.3	995.4	1008.4
32.5°	686.7	802.9	900.9	959.0	966.8
35°	659.0	770.8	866.2	915.6	921.7
37.5°	626.9	738.7	827.2	870.5	872.2
40°	594.8	699.7	786.4	818.5	823.7
42.5°	561.0	661.6	743.9	770.8	767.3
45°	527.2	623.4	699.7	719.6	713.6
47.5°	491.6	584.4	656.4	669.4	665.0
50°	450.0	545.4	613.9	620.8	613.9
52.5°	410.1	508.1	572.2	575.7	569.6
55°	369.4	468.2	530.6	532.4	527.2
57.5°	332.1	430.9	490.7	490.7	488.1
60°	293.1	393.6	453.5	451.7	450.9
62.5°	255.8	360.7	418.8	416.2	413.6
65°	220.2	329.5	383.2	381.5	378.0
67.5°	190.7	300.0	350.3	347.7	346.0
70°	163.9	274.0	319.1	312.1	309.5
72.5°	137.9	248.0	288.7	278.3	279.2
75°	115.3	223.7	255.8	245.4	242.8
77.5°	92.8	198.6	223.7	207.2	203.8
80°	72.8	171.7	187.3	166.5	158.7
82.5°	53.8	142.2	145.7	125.7	120.5
85°	35.5	107.5	101.4	86.7	83.2
87.5°	19.1	63.3	54.6	44.2	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)