

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: P183772

Luminaire Tested: **24SR-LD2-34-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-34-C-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3360.1 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

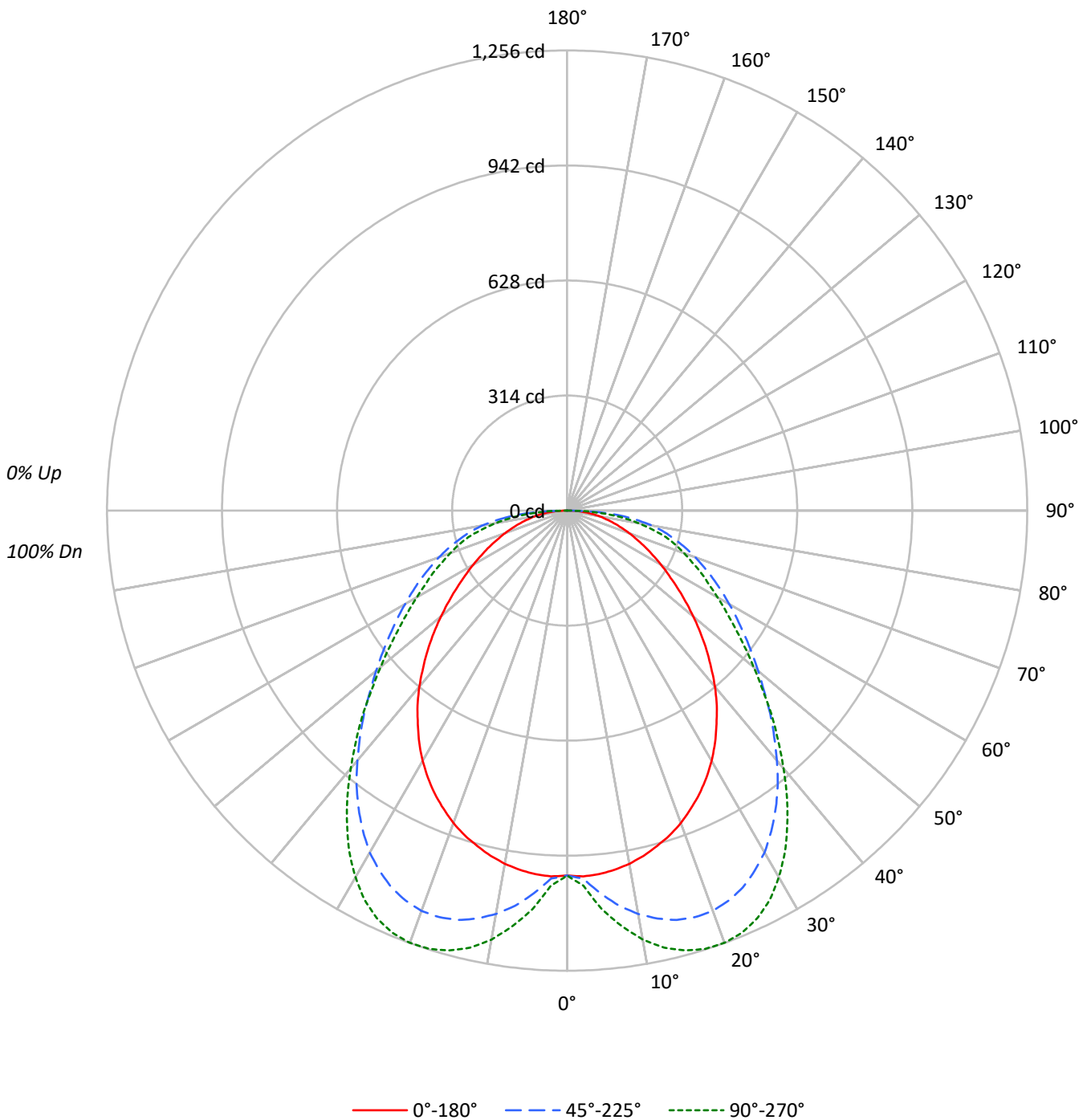
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1340	1340	1340
5°	1345	1417	1476
10°	1337	1527	1624
15°	1320	1611	1731
20°	1300	1665	1798
25°	1268	1685	1823
30°	1225	1674	1795
35°	1167	1631	1721
40°	1102	1564	1614
45°	1024	1491	1502
50°	939	1424	1391
55°	861	1384	1314
60°	797	1374	1276
65°	745	1399	1286
70°	709	1463	1336
75°	686	1587	1450
80°	693	1823	1530
85°	727	2126	1666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	3.0
10°-20°	320.5	9.5
20°-30°	505.9	15.1
30°-40°	592.9	17.6
40°-50°	567.2	16.9
50°-60°	483.3	14.4
60°-70°	387.8	11.5
70°-80°	280.7	8.4
80°-90°	119.9	3.6
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°	928.3	27.6
0°-40°	1521.2	45.3
0°-60°	2571.7	76.5
0°-90°	3360.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3360.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	996	1014	1049	1086	1092	95
15°	948	1062	1157	1226	1243	267
25°	854	1018	1135	1212	1228	393
35°	710	885	993	1045	1048	444
45°	538	695	784	794	790	415
55°	367	523	590	574	560	330
65°	234	394	440	411	404	233
75°	132	279	305	281	279	140
85°	47	140	138	114	108	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.1	996.1	996.1	996.1	996.1
2.5°	999.5	1000.7	1005.3	1024.8	1024.8
5°	996.1	1014.5	1048.9	1085.6	1092.5
7.5°	989.2	1030.5	1087.9	1135.0	1144.1
10°	978.9	1047.7	1117.7	1175.1	1188.9
12.5°	965.1	1058.1	1140.7	1206.1	1222.2
15°	947.9	1061.5	1156.8	1225.6	1242.8
17.5°	929.5	1060.4	1163.6	1237.1	1254.3
20°	907.7	1051.2	1162.5	1239.4	1255.5
22.5°	881.3	1038.6	1152.2	1230.2	1247.4
25°	853.8	1017.9	1135.0	1211.8	1227.9
27.5°	822.8	993.8	1108.6	1183.2	1198.1
30°	788.4	962.8	1077.6	1144.1	1155.6
32.5°	751.7	926.1	1037.4	1098.2	1106.3
35°	710.4	884.8	992.7	1045.4	1047.7
37.5°	671.3	840.0	944.5	986.9	985.8
40°	627.7	791.8	890.5	924.9	919.2
42.5°	581.8	743.6	836.6	860.7	852.7
45°	538.2	695.4	783.8	794.1	789.5
47.5°	493.5	647.2	728.7	736.7	723.0
50°	448.7	603.6	680.5	677.1	664.4
52.5°	407.4	563.5	634.6	624.3	610.5
55°	367.2	523.3	589.9	573.8	560.0
57.5°	329.4	487.7	549.7	527.9	515.3
60°	296.1	453.3	510.7	485.4	474.0
62.5°	263.9	422.3	474.0	447.6	436.1
65°	234.1	393.6	439.5	410.8	403.9
67.5°	205.4	364.9	405.1	377.6	369.5
70°	180.2	335.1	371.8	344.3	339.7
72.5°	154.9	307.6	338.5	313.3	309.8
75°	132.0	278.9	305.3	281.2	278.9
77.5°	109.0	247.9	272.0	243.3	237.5
80°	89.5	216.9	235.3	202.0	197.4
82.5°	67.7	179.0	188.2	158.4	156.1
85°	47.1	140.0	137.7	113.6	107.9
87.5°	25.2	83.8	73.4	58.5	56.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)