

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: P183782

Luminaire Tested: **24SR-LD2-45-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183782
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-LD2-45-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: 4376.6 lumens
Efficiency: N/A
Efficacy: 119.3 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

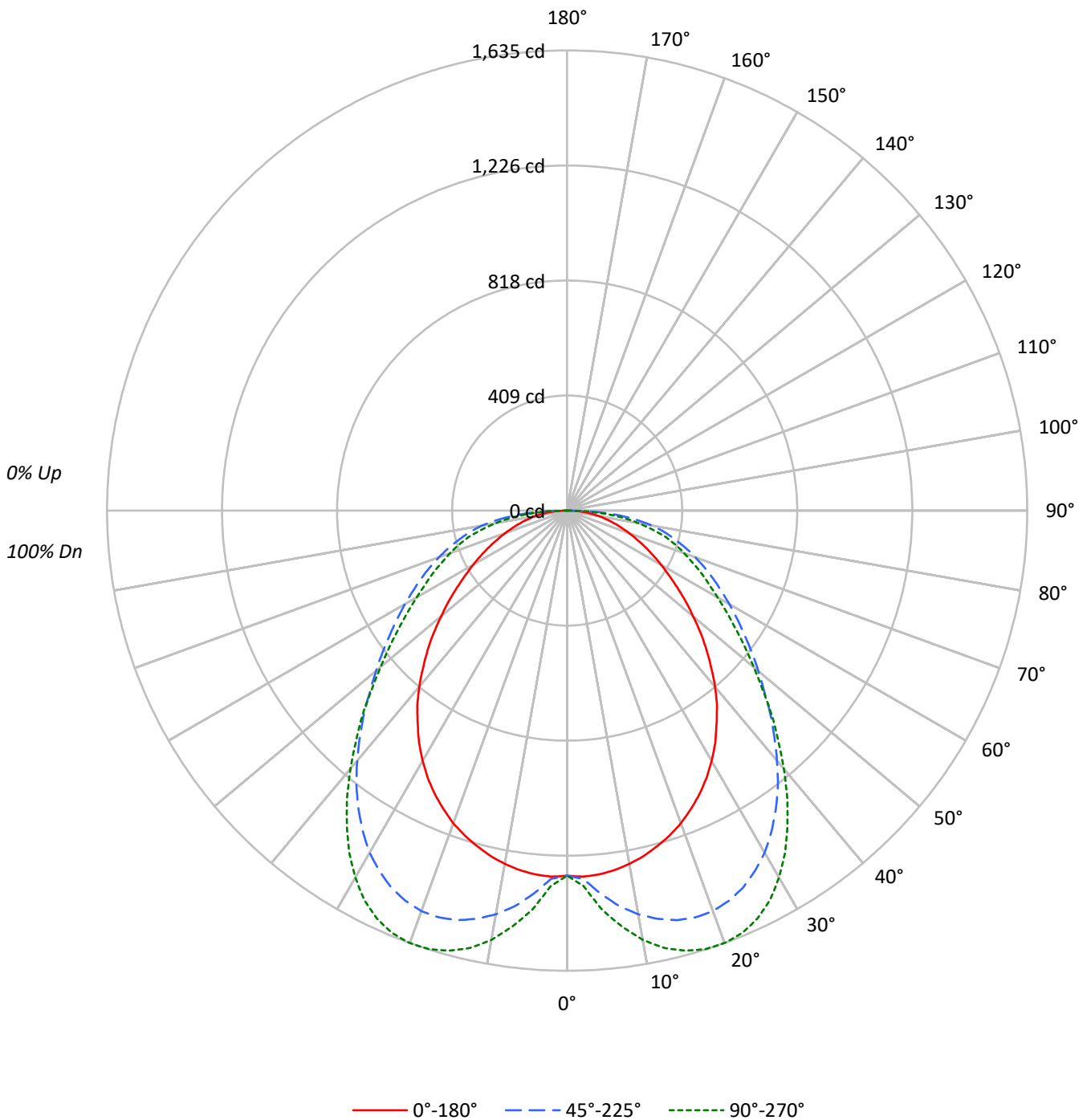
Input Watts (W): 36.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1746	1746	1746
5°	1752	1845	1922
10°	1742	1989	2116
15°	1720	2099	2255
20°	1693	2168	2341
25°	1651	2195	2374
30°	1595	2181	2339
35°	1520	2124	2242
40°	1436	2037	2103
45°	1334	1943	1957
50°	1223	1855	1812
55°	1122	1802	1711
60°	1038	1790	1661
65°	971	1823	1675
70°	923	1905	1741
75°	894	2067	1888
80°	903	2374	1992
85°	946	2770	2169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	3.0
10°-20°	417.5	9.5
20°-30°	659.0	15.1
30°-40°	772.3	17.6
40°-50°	738.8	16.9
50°-60°	629.5	14.4
60°-70°	505.2	11.5
70°-80°	365.7	8.4
80°-90°	156.1	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°	1209.1	27.6
0°-40°	1981.4	45.3
0°-60°	3349.7	76.5
0°-90°	4376.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4376.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1298	1321	1366	1414	1423	123
15°	1235	1383	1507	1596	1619	348
25°	1112	1326	1478	1578	1599	511
35°	925	1152	1293	1362	1365	579
45°	701	906	1021	1034	1028	540
55°	478	682	768	747	729	430
65°	305	513	572	535	526	303
75°	172	363	398	366	363	182
85°	61	182	179	148	140	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.5	1297.5	1297.5	1297.5	1297.5
2.5°	1301.9	1303.4	1309.4	1334.8	1334.8
5°	1297.5	1321.4	1366.2	1414.1	1423.0
7.5°	1288.5	1342.3	1417.0	1478.3	1490.3
10°	1275.0	1364.7	1455.9	1530.6	1548.6
12.5°	1257.1	1378.2	1485.8	1571.0	1591.9
15°	1234.7	1382.7	1506.7	1596.4	1618.8
17.5°	1210.8	1381.2	1515.7	1611.4	1633.8
20°	1182.4	1369.2	1514.2	1614.4	1635.3
22.5°	1148.0	1352.8	1500.7	1602.4	1624.8
25°	1112.1	1325.9	1478.3	1578.5	1599.4
27.5°	1071.7	1294.5	1443.9	1541.1	1560.5
30°	1026.9	1254.1	1403.6	1490.3	1505.2
32.5°	979.1	1206.3	1351.3	1430.5	1441.0
35°	925.3	1152.5	1293.0	1361.7	1364.7
37.5°	874.4	1094.2	1230.2	1285.5	1284.0
40°	817.6	1031.4	1159.9	1204.8	1197.3
42.5°	757.8	968.6	1089.7	1121.1	1110.6
45°	701.0	905.8	1020.9	1034.4	1028.4
47.5°	642.8	843.0	949.2	959.6	941.7
50°	584.5	786.2	886.4	881.9	865.5
52.5°	530.6	733.9	826.6	813.2	795.2
55°	478.3	681.6	768.3	747.4	729.4
57.5°	429.0	635.3	716.0	687.6	671.2
60°	385.7	590.4	665.2	632.3	617.3
62.5°	343.8	550.1	617.3	583.0	568.0
65°	304.9	512.7	572.5	535.1	526.2
67.5°	267.6	475.3	527.7	491.8	481.3
70°	234.7	436.5	484.3	448.4	442.5
72.5°	201.8	400.6	441.0	408.1	403.6
75°	171.9	363.2	397.6	366.2	363.2
77.5°	142.0	322.9	354.3	316.9	309.4
80°	116.6	282.5	306.4	263.1	257.1
82.5°	88.2	233.2	245.1	206.3	203.3
85°	61.3	182.4	179.4	148.0	140.5
87.5°	32.9	109.1	95.7	76.2	73.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)