

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: P296314

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

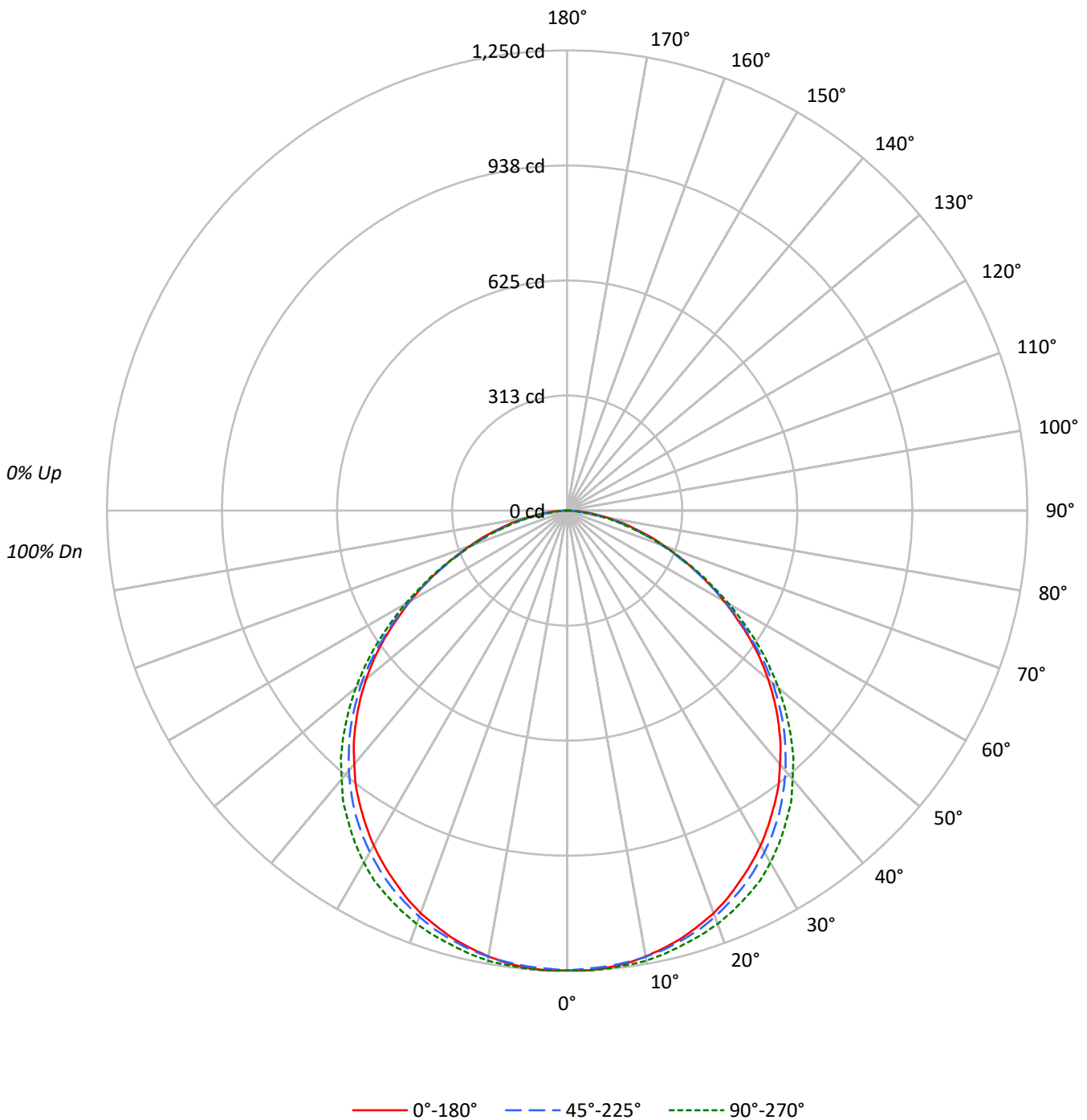
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1681	1681	1681
5°	1684	1679	1687
10°	1680	1682	1696
15°	1675	1682	1700
20°	1666	1681	1711
25°	1649	1676	1716
30°	1633	1665	1715
35°	1609	1650	1701
40°	1580	1621	1673
45°	1544	1583	1632
50°	1492	1527	1568
55°	1420	1438	1480
60°	1325	1332	1367
65°	1217	1209	1238
70°	1106	1076	1081
75°	984	930	923
80°	854	763	743
85°	701	540	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	3.5
10°-20°	341.5	10.0
20°-30°	521.3	15.3
30°-40°	628.5	18.4
40°-50°	640.9	18.8
50°-60°	548.5	16.1
60°-70°	377.8	11.1
70°-80°	193.7	5.7
80°-90°	45.1	1.3
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°	981.4	28.7
0°-40°	1609.9	47.1
0°-60°	2799.4	81.9
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1247	1244	1243	1247	1249	118
15°	1203	1201	1208	1217	1221	339
25°	1111	1114	1129	1148	1156	512
35°	980	984	1004	1026	1035	613
45°	811	812	832	853	858	625
55°	605	601	613	626	631	540
65°	382	373	380	382	389	380
75°	189	181	179	179	178	204
85°	45	40	35	31	27	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.2	1249.2	1249.2	1249.2	1249.2
2.5°	1250.5	1247.9	1245.4	1247.9	1250.5
5°	1246.7	1244.1	1242.8	1246.7	1249.2
7.5°	1240.2	1237.6	1237.6	1242.8	1245.4
10°	1229.8	1228.5	1231.1	1236.3	1241.5
12.5°	1216.8	1216.8	1220.7	1227.2	1232.4
15°	1202.6	1201.3	1207.8	1216.8	1220.7
17.5°	1183.2	1184.4	1193.5	1203.9	1209.1
20°	1163.7	1165.0	1174.1	1188.3	1194.8
22.5°	1139.1	1141.7	1152.1	1170.2	1176.7
25°	1110.6	1114.5	1128.7	1148.2	1155.9
27.5°	1082.1	1086.0	1101.5	1123.5	1133.9
30°	1051.0	1056.2	1071.7	1095.0	1104.1
32.5°	1016.0	1019.9	1039.3	1062.6	1071.7
35°	979.7	983.6	1004.3	1026.3	1035.4
37.5°	943.4	943.4	964.1	990.1	999.1
40°	899.4	900.6	922.7	947.3	952.5
42.5°	857.9	857.9	877.3	900.6	909.7
45°	811.2	812.5	832.0	852.7	857.9
47.5°	763.3	763.3	780.1	799.6	804.8
50°	712.7	710.2	729.6	745.1	749.0
52.5°	660.9	657.0	672.6	685.5	690.7
55°	605.2	601.3	613.0	625.9	631.1
57.5°	546.9	541.7	554.6	566.3	568.9
60°	492.4	484.7	495.0	501.5	508.0
62.5°	438.0	428.9	436.7	440.6	445.8
65°	382.3	373.2	379.7	382.3	388.8
67.5°	329.2	322.7	324.0	327.9	330.5
70°	281.2	273.4	273.4	273.4	274.7
72.5°	237.1	225.5	224.2	225.5	225.5
75°	189.2	181.4	178.8	178.8	177.5
77.5°	151.6	141.3	140.0	137.4	134.8
80°	110.2	101.1	98.5	97.2	95.9
82.5°	76.5	68.7	66.1	63.5	59.6
85°	45.4	40.2	35.0	31.1	27.2
87.5°	16.8	15.6	13.0	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)