

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: P296568

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-44-RDP-UNV-L83050-W2A1-U-4000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3734.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

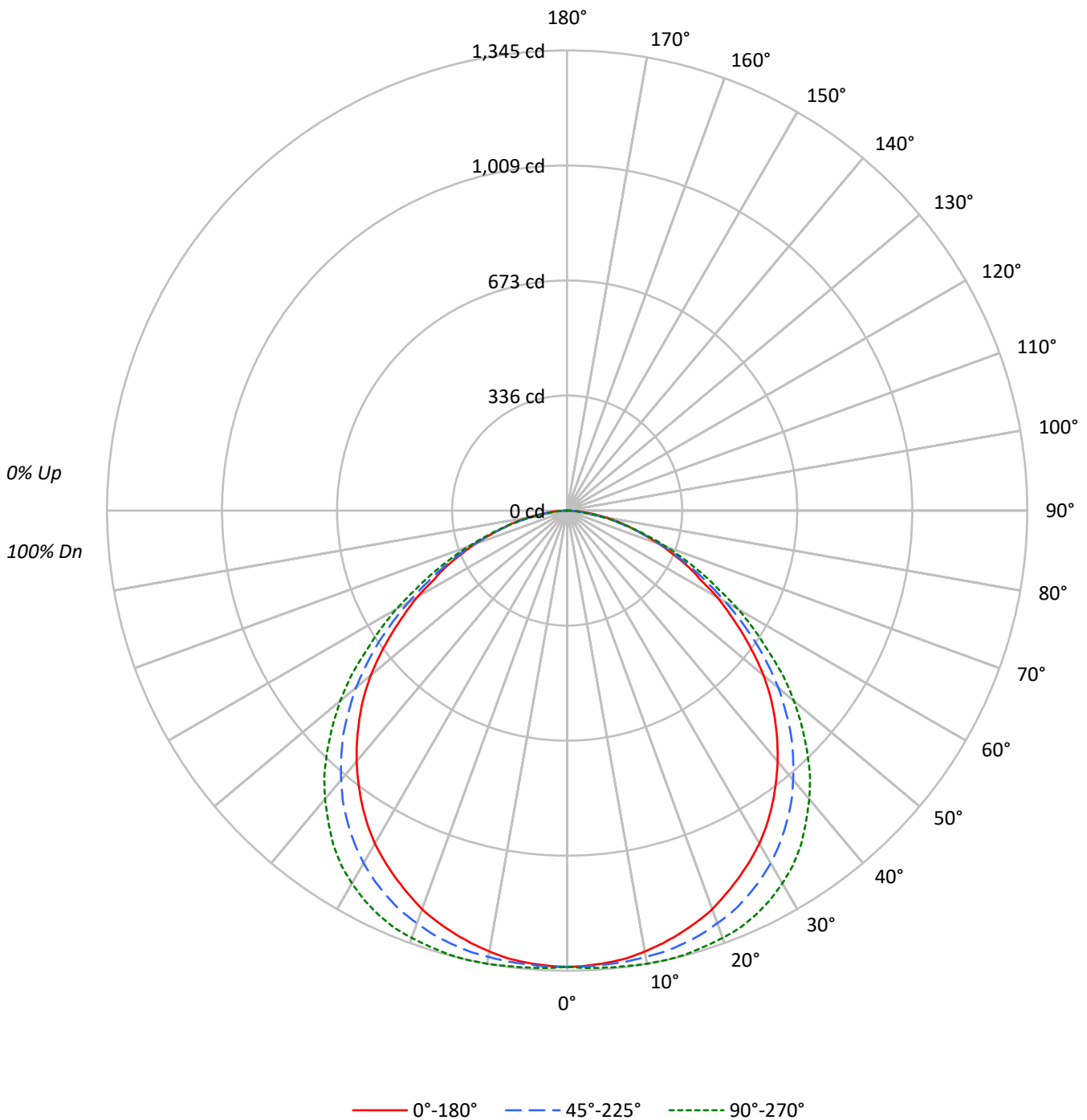
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3589	3589	3589
5°	3584	3597	3621
10°	3576	3620	3676
15°	3563	3652	3741
20°	3552	3676	3806
25°	3519	3696	3872
30°	3492	3697	3910
35°	3436	3669	3916
40°	3362	3610	3867
45°	3268	3520	3772
50°	3136	3375	3624
55°	2936	3161	3375
60°	2729	2876	3110
65°	2501	2588	2763
70°	2264	2300	2408
75°	1994	1947	2018
80°	1734	1593	1522
85°	1411	1059	917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.0	3.4
10°-20°	370.3	9.9
20°-30°	573.8	15.4
30°-40°	698.3	18.7
40°-50°	711.2	19.0
50°-60°	599.8	16.1
60°-70°	405.7	10.9
70°-80°	202.8	5.4
80°-90°	45.1	1.2
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°	1071.1	28.7
0°-40°	1769.4	47.4
0°-60°	3080.4	82.5
0°-90°	3734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1327	1329	1332	1338	1341	126
15°	1279	1288	1311	1334	1343	361
25°	1185	1204	1245	1286	1304	546
35°	1046	1069	1117	1169	1192	654
45°	859	875	925	973	991	661
55°	626	635	674	706	719	560
65°	393	386	406	425	434	388
75°	192	185	187	190	194	206
85°	46	39	34	30	30	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1333.8	1333.8	1333.8	1333.8	1333.8
2.5°	1331.5	1331.5	1333.8	1336.1	1338.4
5°	1326.9	1329.2	1331.5	1338.4	1340.6
7.5°	1320.1	1322.4	1329.2	1338.4	1342.9
10°	1308.7	1313.2	1324.7	1338.4	1345.2
12.5°	1295.0	1301.8	1320.1	1336.1	1345.2
15°	1279.0	1288.1	1311.0	1333.8	1342.9
17.5°	1260.7	1272.1	1299.5	1324.7	1336.1
20°	1240.2	1253.9	1283.6	1315.5	1329.2
22.5°	1212.8	1231.0	1267.6	1304.1	1320.1
25°	1185.3	1203.6	1244.7	1285.8	1304.1
27.5°	1155.7	1176.2	1219.6	1265.3	1283.6
30°	1123.7	1141.9	1189.9	1237.9	1258.4
32.5°	1087.1	1105.4	1155.7	1205.9	1228.7
35°	1046.0	1068.9	1116.8	1169.4	1192.2
37.5°	1002.6	1023.2	1075.7	1126.0	1146.5
40°	957.0	977.5	1027.8	1080.3	1100.8
42.5°	909.0	929.5	977.5	1027.8	1050.6
45°	858.7	874.7	925.0	972.9	991.2
47.5°	806.2	817.6	865.6	911.3	929.5
50°	749.1	760.5	806.2	847.3	865.6
52.5°	687.5	696.6	740.0	776.5	797.1
55°	625.8	634.9	673.8	705.7	719.4
57.5°	564.1	568.7	602.9	634.9	648.6
60°	507.0	507.0	534.4	559.6	577.8
62.5°	440.8	447.6	468.2	493.3	500.2
65°	392.8	386.0	406.5	424.8	433.9
67.5°	338.0	333.4	347.2	363.1	367.7
70°	287.8	280.9	292.3	301.5	306.0
72.5°	235.2	233.0	237.5	244.4	246.7
75°	191.8	185.0	187.3	189.6	194.1
77.5°	153.0	141.6	143.9	141.6	143.9
80°	111.9	102.8	102.8	100.5	98.2
82.5°	75.4	70.8	66.2	61.7	59.4
85°	45.7	38.8	34.3	29.7	29.7
87.5°	18.3	13.7	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)