

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: P295625

Luminaire Tested: **14RLN-LD5-40-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-UNV-L93050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3724.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

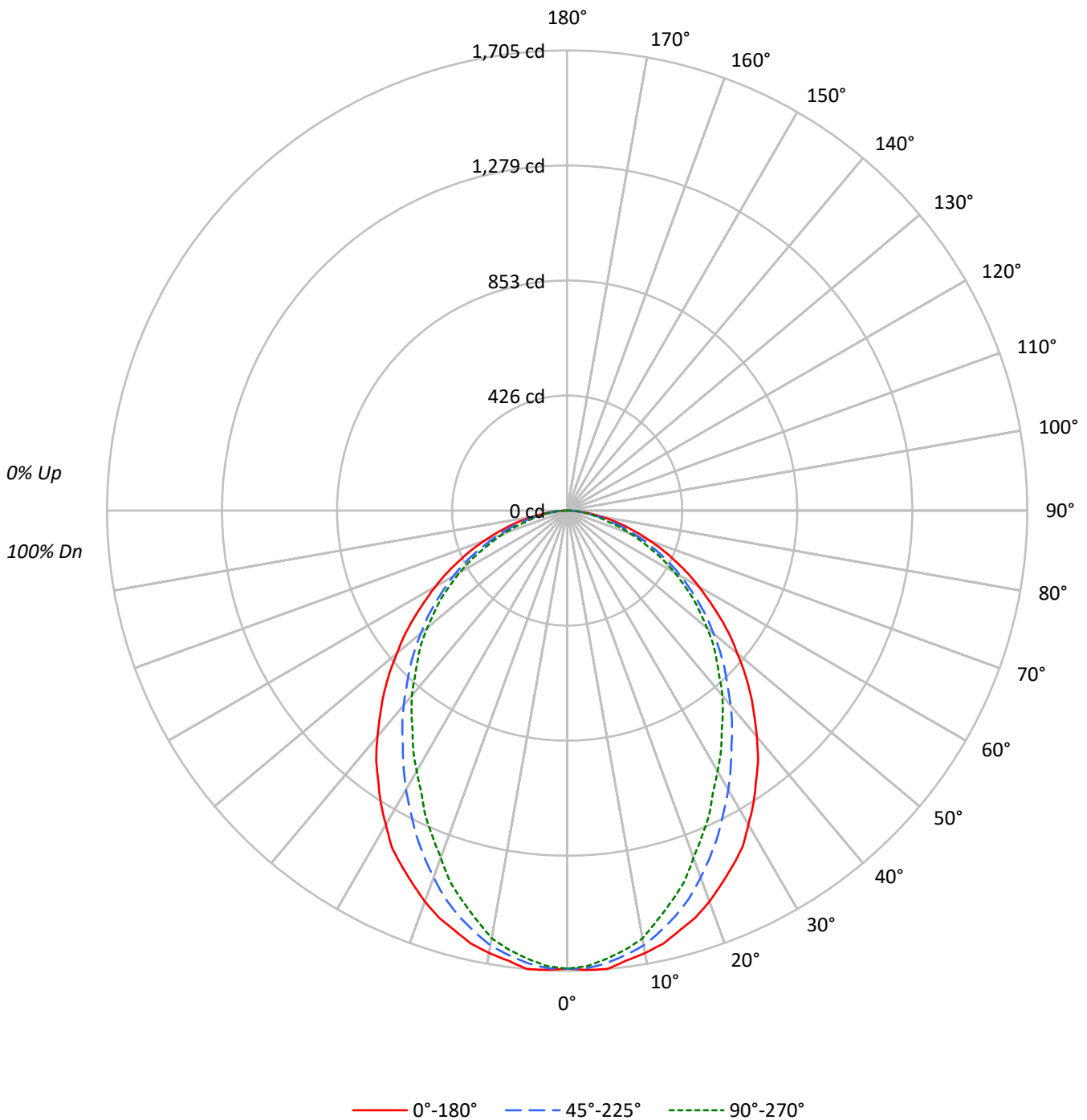
Input Watts (W): 40.455
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4567	4567	4567
5°	4606	4546	4504
10°	4547	4470	4397
15°	4487	4330	4172
20°	4414	4144	3919
25°	4311	3933	3694
30°	4174	3710	3465
35°	4010	3488	3281
40°	3840	3310	3144
45°	3658	3137	2981
50°	3444	2963	2832
55°	3247	2797	2679
60°	3039	2624	2481
65°	2814	2424	2223
70°	2562	2178	1968
75°	2306	1946	1603
80°	1974	1584	1511
85°	1602	1507	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	4.3
10°-20°	436.2	11.7
20°-30°	612.2	16.4
30°-40°	679.0	18.2
40°-50°	651.8	17.5
50°-60°	546.3	14.7
60°-70°	383.4	10.3
70°-80°	200.2	5.4
80°-90°	56.0	1.5
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°	1207.2	32.4
0°-40°	1886.2	50.6
0°-60°	3084.3	82.8
0°-90°	3724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1705	1683	1683	1672	1667	161
15°	1611	1582	1554	1513	1498	454
25°	1452	1400	1324	1260	1244	668
35°	1221	1153	1062	1010	999	764
45°	961	887	824	793	783	740
55°	692	640	596	577	571	619
65°	442	412	381	357	349	439
75°	222	204	187	165	154	235
85°	52	49	49	49	49	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697.3	1697.3	1697.3	1697.3	1697.3
2.5°	1703.5	1694.1	1697.3	1697.3	1689.4
5°	1705.1	1683.1	1683.1	1672.1	1667.4
7.5°	1681.5	1664.2	1661.1	1646.9	1642.2
10°	1664.2	1646.9	1635.9	1617.0	1609.2
12.5°	1643.8	1617.0	1596.6	1565.1	1552.5
15°	1610.7	1582.4	1554.1	1513.2	1497.5
17.5°	1580.8	1547.8	1505.3	1459.7	1442.4
20°	1541.5	1502.2	1447.1	1384.2	1368.5
22.5°	1495.9	1450.3	1385.8	1318.2	1305.6
25°	1451.9	1400.0	1324.5	1260.0	1244.2
27.5°	1406.2	1343.3	1256.8	1187.6	1171.9
30°	1343.3	1278.8	1193.9	1126.3	1115.2
32.5°	1285.1	1220.6	1127.8	1072.8	1060.2
35°	1220.6	1153.0	1061.8	1009.9	998.8
37.5°	1162.4	1083.8	1003.6	953.2	946.9
40°	1093.2	1022.4	942.2	904.5	895.0
42.5°	1025.6	954.8	879.3	846.3	835.3
45°	961.1	887.2	824.2	792.8	783.3
47.5°	893.5	825.8	766.0	740.9	734.6
50°	822.7	762.9	707.8	684.2	676.4
52.5°	759.8	698.4	652.8	630.8	621.3
55°	692.1	640.2	596.2	577.3	571.0
57.5°	624.5	582.0	539.5	522.2	512.8
60°	564.7	522.2	487.6	467.2	460.9
62.5°	503.4	467.2	434.1	415.3	407.4
65°	442.0	412.1	380.7	357.1	349.2
67.5°	385.4	352.3	327.2	306.7	298.9
70°	325.6	302.0	276.8	258.0	250.1
72.5°	270.6	253.3	231.2	210.8	202.9
75°	221.8	204.5	187.2	165.2	154.2
77.5°	173.0	162.0	144.7	125.8	125.8
80°	127.4	121.1	102.2	99.1	97.5
82.5°	88.1	84.9	73.9	72.4	72.4
85°	51.9	48.8	48.8	48.8	48.8
87.5°	22.0	23.6	25.2	25.2	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)