

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: P475430

Luminaire Tested: **14CZ2-60HE-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475430  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-60HE-RDP-UNV-L835-CD1-U  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3999.5 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

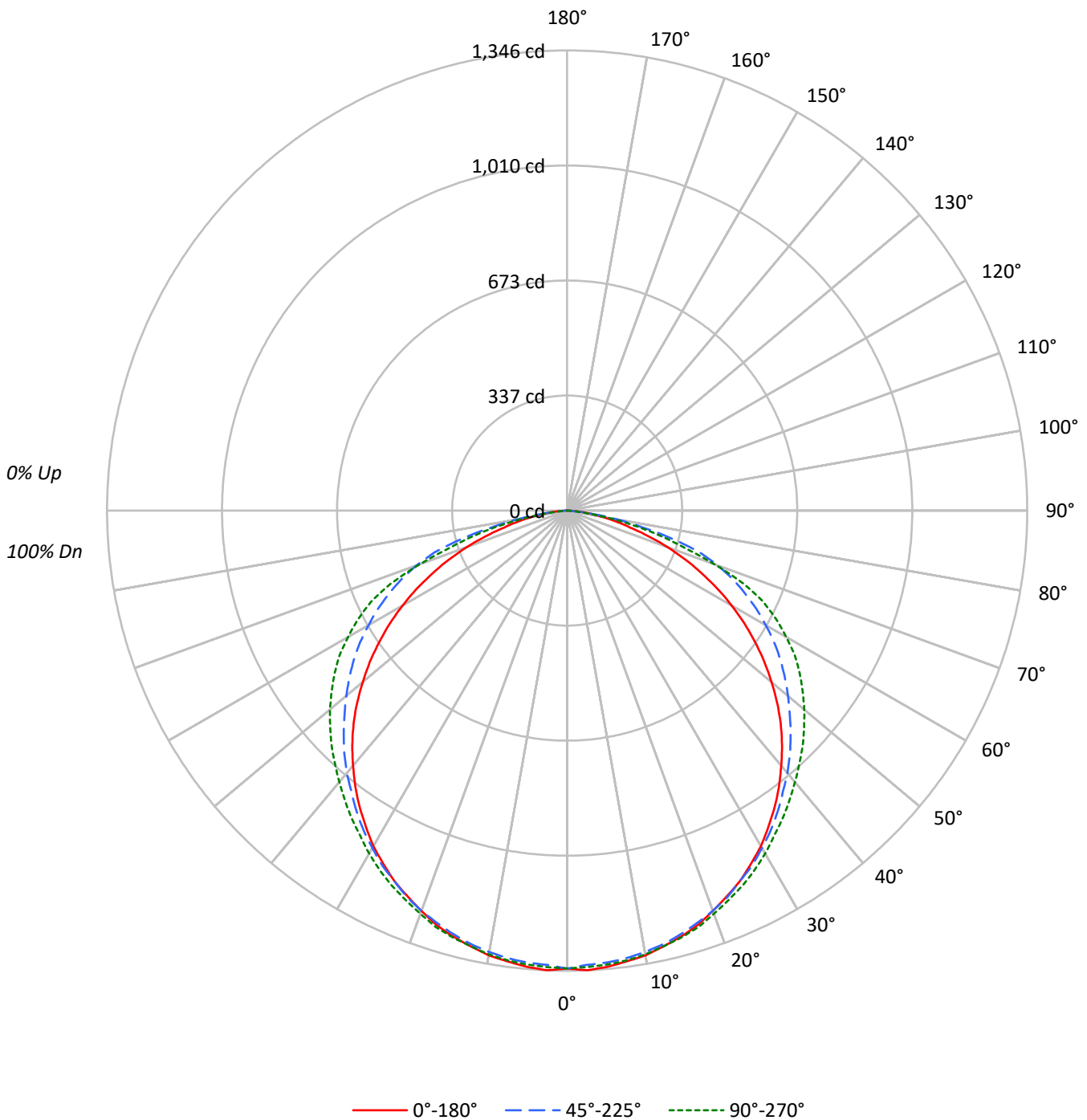
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	3605	3605	3605
5°	3618	3585	3602
10°	3609	3583	3601
15°	3593	3575	3601
20°	3568	3568	3594
25°	3551	3551	3597
30°	3522	3541	3599
35°	3477	3529	3611
40°	3422	3521	3642
45°	3363	3518	3707
50°	3268	3530	3791
55°	3149	3575	3897
60°	2991	3613	3983
65°	2763	3658	4036
70°	2456	3685	3611
75°	1981	3311	2889
80°	1548	2323	1888
85°	1059	676	482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.8	3.2
10°-20°	363.8	9.1
20°-30°	553.9	13.8
30°-40°	674.6	16.9
40°-50°	715.8	17.9
50°-60°	675.5	16.9
60°-70°	545.4	13.6
70°-80°	295.9	7.4
80°-90°	47.9	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°	1044.5	26.1
0°-40°	1719.1	43.0
0°-60°	3110.4	77.8
0°-90°	3999.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1340	1336	1327	1336	1333	127
15°	1290	1286	1283	1293	1293	364
25°	1196	1193	1196	1208	1212	551
35°	1058	1065	1074	1096	1099	662
45°	884	896	924	959	974	680
55°	671	699	762	812	831	600
65°	434	487	574	621	634	430
75°	190	278	318	287	278	208
85°	34	38	22	19	16	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1339.5	1339.5	1339.5	1339.5	1339.5
2.5°	1345.8	1339.5	1330.2	1339.5	1336.4
5°	1339.5	1336.4	1327.1	1336.4	1333.3
7.5°	1330.2	1330.2	1320.8	1327.1	1327.1
10°	1320.8	1317.7	1311.4	1320.8	1317.7
12.5°	1305.2	1302.1	1299.0	1308.3	1305.2
15°	1289.6	1286.5	1283.3	1292.7	1292.7
17.5°	1270.9	1267.7	1264.6	1277.1	1277.1
20°	1245.9	1245.9	1245.9	1258.4	1255.2
22.5°	1220.9	1220.9	1224.0	1236.5	1233.4
25°	1195.9	1192.8	1195.9	1208.4	1211.5
27.5°	1164.7	1167.8	1170.9	1183.4	1186.5
30°	1133.5	1136.6	1139.7	1155.3	1158.4
32.5°	1096.0	1102.2	1108.5	1127.2	1127.2
35°	1058.5	1064.8	1074.1	1096.0	1099.1
37.5°	1017.9	1024.2	1036.7	1061.6	1067.9
40°	974.2	983.6	1002.3	1027.3	1036.7
42.5°	930.5	943.0	964.8	992.9	1005.4
45°	883.7	896.2	924.3	958.6	974.2
47.5°	833.7	849.3	883.7	927.4	939.9
50°	780.6	802.5	843.1	889.9	905.5
52.5°	727.5	752.5	802.5	852.4	868.1
55°	671.3	699.4	761.9	811.8	830.6
57.5°	615.1	646.4	718.2	771.3	790.0
60°	555.8	593.3	671.3	724.4	740.0
62.5°	496.5	540.2	624.5	677.6	690.1
65°	434.0	487.1	574.5	621.4	633.9
67.5°	374.7	437.1	524.6	558.9	558.9
70°	312.2	380.9	468.4	477.7	459.0
72.5°	249.8	327.9	405.9	371.6	356.0
75°	190.5	277.9	318.5	287.3	277.9
77.5°	143.6	224.8	224.8	206.1	199.8
80°	99.9	171.7	149.9	131.1	121.8
82.5°	65.6	96.8	78.1	62.4	53.1
85°	34.3	37.5	21.9	18.7	15.6
87.5°	12.5	6.2	3.1	6.2	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)