

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: P412732

Luminaire Tested: **22PD-40-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-40-PP3-L835
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

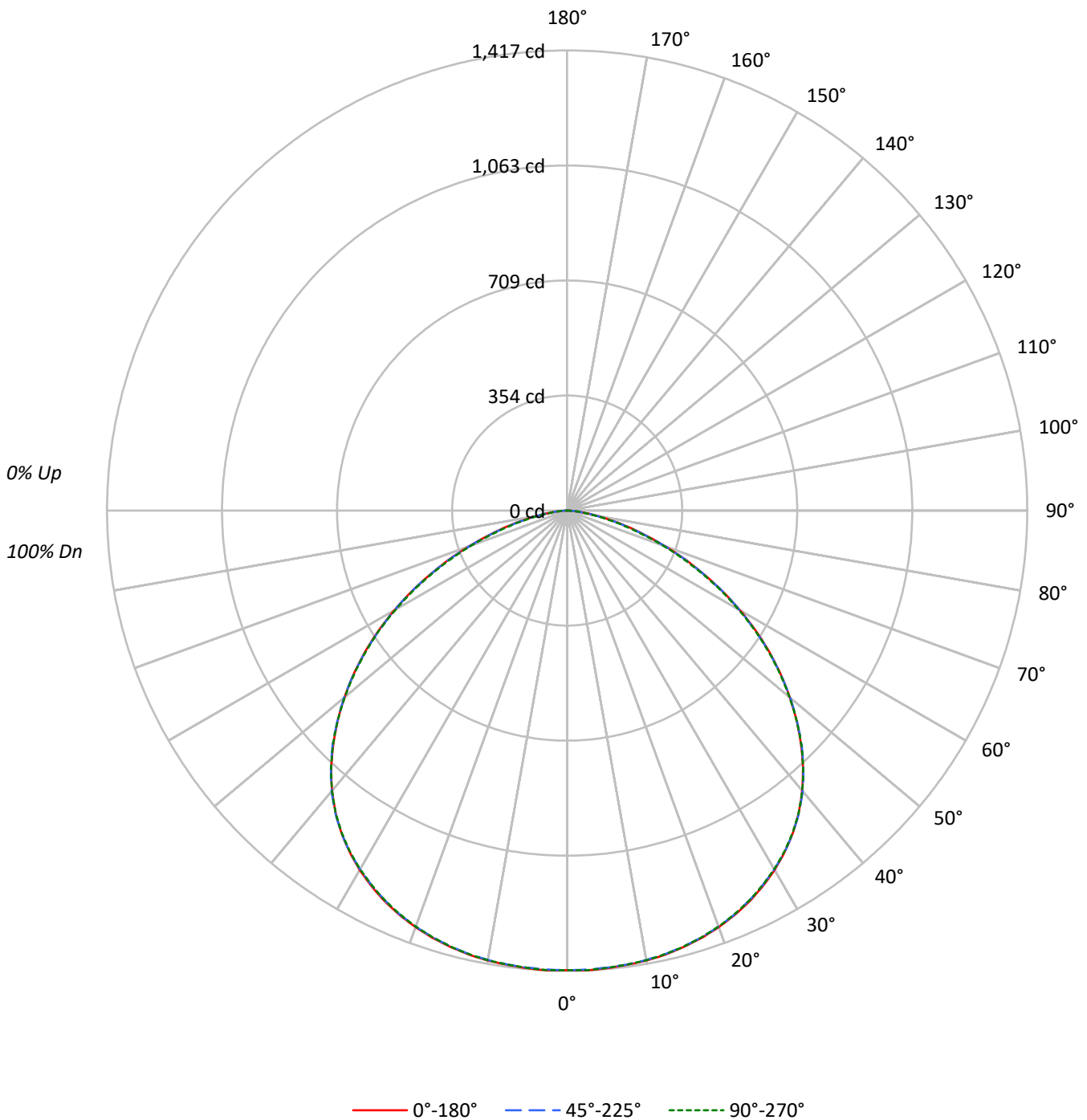
Lumens per Lamp: N/A
Luminaire Lumens: 4061.0 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
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	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	103	99	96	98	95	93	95	92	90	91	89	87	85																												
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72																												
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61																												
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45																												
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39																												
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																												
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																												
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28																												
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3809	3809	3809
5°	3821	3816	3818
10°	3844	3839	3842
15°	3875	3871	3871
20°	3909	3905	3903
25°	3943	3936	3936
30°	3971	3963	3962
35°	3982	3982	3978
40°	3956	3965	3956
45°	3878	3889	3883
50°	3747	3753	3743
55°	3567	3559	3552
60°	3312	3304	3279
65°	2958	2955	2922
70°	2529	2514	2458
75°	2015	1956	1896
80°	1435	1406	1333
85°	932	932	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	3.3
10°-20°	392.6	9.7
20°-30°	611.4	15.1
30°-40°	756.7	18.6
40°-50°	784.7	19.3
50°-60°	676.3	16.7
60°-70°	459.8	11.3
70°-80°	205.7	5.1
80°-90°	39.2	1.0
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°	1138.6	28.0
0°-40°	1895.3	46.7
0°-60°	3356.3	82.6
0°-90°	4061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1414	1412	1413	1412	1414	135
15°	1391	1388	1389	1388	1389	393
25°	1328	1326	1326	1325	1326	612
35°	1212	1211	1212	1210	1211	757
45°	1019	1018	1022	1019	1020	784
55°	760	758	758	757	757	678
65°	465	468	464	463	459	461
75°	194	194	188	187	182	208
85°	30	31	30	29	29	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1415.4	1415.4	1415.4	1415.4	1415.4
2.5°	1417.3	1414.5	1414.5	1415.0	1416.4
5°	1414.5	1411.7	1412.6	1412.1	1413.5
7.5°	1410.7	1408.4	1409.8	1408.8	1409.8
10°	1406.9	1404.6	1405.0	1404.6	1406.0
12.5°	1400.3	1397.5	1398.4	1398.4	1398.9
15°	1390.9	1388.5	1389.4	1388.5	1389.4
17.5°	1379.5	1376.7	1377.2	1376.7	1377.6
20°	1364.9	1363.0	1363.5	1362.5	1363.0
22.5°	1348.3	1346.0	1346.4	1345.5	1345.5
25°	1328.0	1326.1	1325.6	1325.2	1325.6
27.5°	1304.4	1302.0	1302.0	1301.5	1301.5
30°	1277.9	1275.5	1275.5	1275.1	1275.1
32.5°	1246.7	1245.8	1246.2	1245.3	1244.8
35°	1212.2	1210.8	1212.2	1210.3	1210.8
37.5°	1172.1	1170.2	1173.0	1171.1	1171.6
40°	1126.2	1125.3	1128.6	1127.2	1126.2
42.5°	1075.2	1075.2	1076.6	1077.1	1076.1
45°	1018.9	1018.0	1021.8	1019.4	1020.3
47.5°	958.4	957.0	959.9	959.4	958.9
50°	895.1	894.2	896.5	894.2	894.2
52.5°	829.4	828.9	829.4	827.1	826.6
55°	760.4	757.6	758.5	757.1	757.1
57.5°	688.6	685.3	685.7	685.3	685.7
60°	615.3	614.4	613.9	611.5	609.2
62.5°	540.2	541.1	540.7	537.3	535.0
65°	464.6	468.3	464.1	462.7	458.9
67.5°	393.2	394.6	391.8	388.5	384.2
70°	321.4	324.2	319.5	316.2	312.4
72.5°	252.8	254.7	250.5	248.6	243.9
75°	193.8	194.2	188.1	187.1	182.4
77.5°	138.0	139.9	135.2	135.2	130.4
80°	92.6	95.9	90.7	89.3	86.0
82.5°	58.1	58.6	57.2	55.8	54.3
85°	30.2	31.2	30.2	29.3	29.3
87.5°	11.3	11.8	11.3	10.9	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)