

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: P412506

Luminaire Tested: **24PD-40-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-40-PB1-L830
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

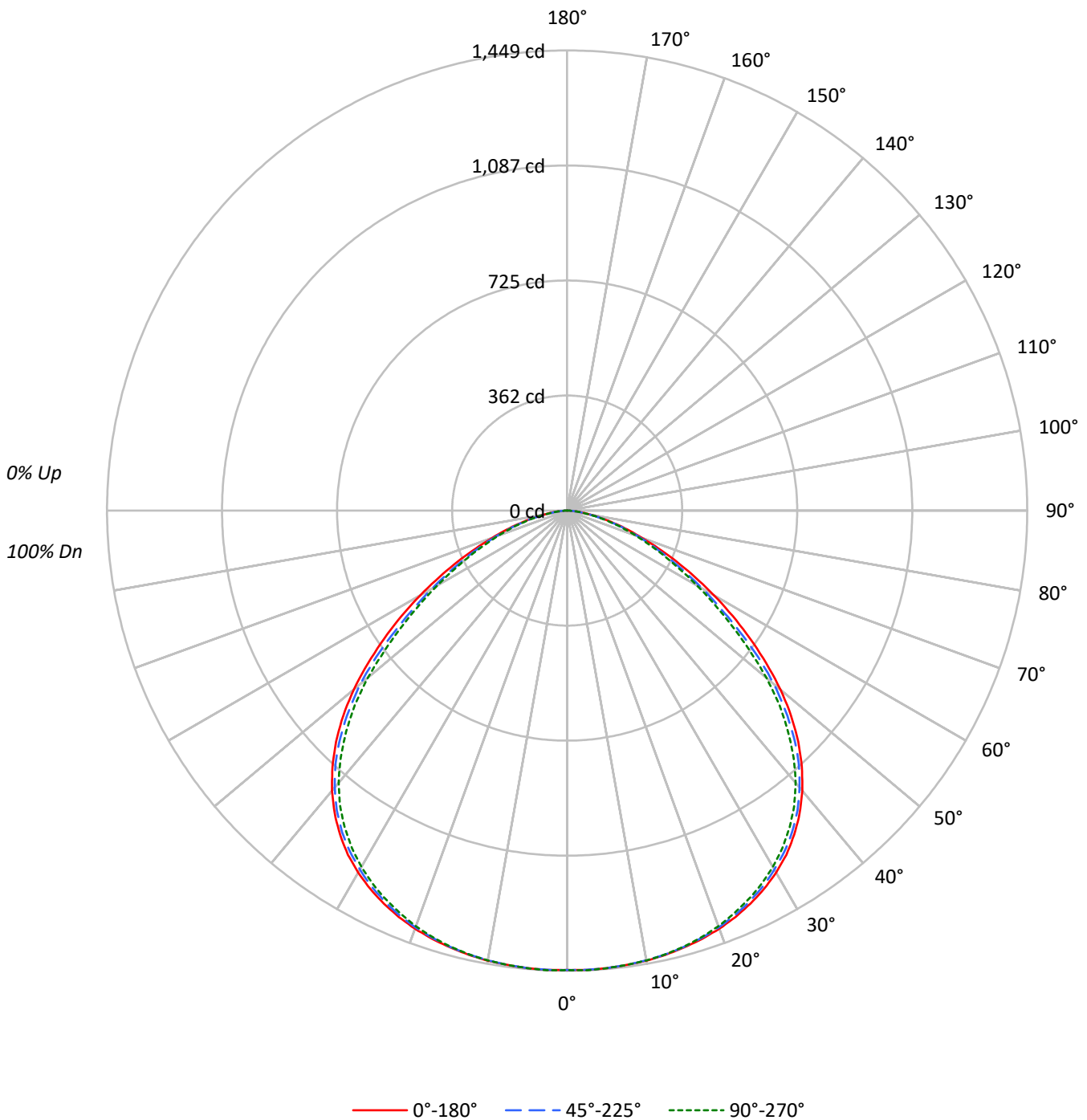
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3850.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
Input Voltage (V): NR
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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39					37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1947	1947	1947
5°	1953	1953	1953
10°	1966	1964	1965
15°	1984	1981	1980
20°	2006	2000	1994
25°	2027	2017	2006
30°	2045	2028	2013
35°	2047	2030	2004
40°	2023	2000	1966
45°	1958	1922	1872
50°	1836	1779	1714
55°	1650	1552	1488
60°	1436	1322	1271
65°	1209	1118	1069
70°	985	935	898
75°	790	762	730
80°	606	559	544
85°	378	367	367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.6
10°-20°	402.1	10.4
20°-30°	626.4	16.3
30°-40°	770.6	20.0
40°-50°	774.0	20.1
50°-60°	596.6	15.5
60°-70°	354.1	9.2
70°-80°	157.7	4.1
80°-90°	30.8	0.8
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°	1166.2	30.3
0°-40°	1936.8	50.3
0°-60°	3307.4	85.9
0°-90°	3850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1446	1446	1446	1445	1446	138
15°	1424	1424	1422	1420	1421	403
25°	1366	1365	1359	1352	1351	630
35°	1246	1244	1236	1225	1220	778
45°	1029	1026	1010	993	984	790
55°	703	690	662	642	634	629
65°	380	363	351	338	336	379
75°	152	149	146	142	140	164
85°	24	23	24	23	24	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1447.6	1447.3	1447.3	1445.7	1448.8
5°	1446.1	1446.5	1446.1	1444.6	1446.1
7.5°	1443.0	1443.4	1442.7	1441.1	1442.7
10°	1439.2	1439.2	1437.7	1436.9	1438.1
12.5°	1432.7	1432.7	1431.2	1430.0	1431.2
15°	1424.3	1424.3	1422.3	1420.0	1421.2
17.5°	1413.9	1413.9	1410.8	1407.8	1408.5
20°	1401.2	1400.9	1396.6	1392.4	1392.8
22.5°	1385.1	1384.8	1379.4	1374.4	1372.9
25°	1365.6	1365.2	1358.7	1352.5	1351.0
27.5°	1343.0	1341.4	1334.1	1327.2	1325.7
30°	1316.1	1315.0	1305.4	1298.5	1295.4
32.5°	1285.0	1282.0	1273.2	1264.7	1260.5
35°	1246.3	1244.4	1235.6	1225.2	1220.2
37.5°	1202.6	1200.7	1191.1	1179.6	1173.8
40°	1152.0	1150.4	1138.6	1126.7	1119.4
42.5°	1093.7	1092.5	1079.9	1063.4	1055.7
45°	1028.9	1026.2	1010.1	993.2	984.0
47.5°	956.8	952.2	932.6	916.5	906.6
50°	877.0	870.9	849.8	829.1	818.7
52.5°	790.7	780.0	758.1	734.4	724.4
55°	703.3	689.9	661.5	641.6	634.3
57.5°	617.8	598.2	571.4	557.2	549.9
60°	533.8	512.3	491.2	477.4	472.5
62.5°	453.7	435.6	417.6	403.8	400.7
65°	379.6	363.2	351.3	337.8	335.9
67.5°	310.6	303.0	292.2	280.7	279.2
70°	250.4	247.3	237.8	230.9	228.2
72.5°	199.8	196.7	189.8	184.8	184.1
75°	151.9	148.8	146.5	141.5	140.4
77.5°	108.1	108.5	106.6	103.9	104.7
80°	78.2	73.6	72.1	70.6	70.2
82.5°	47.9	45.3	44.1	43.7	44.5
85°	24.5	23.4	23.8	22.6	23.8
87.5°	8.4	8.4	8.8	8.4	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)