

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: P284416

Luminaire Tested: **24FP3840HE**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-913-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24FP3840HE
Description: 2x4 30W 4000K HE 80CRI

Light Source: -
Ballast/Driver: -

Summary

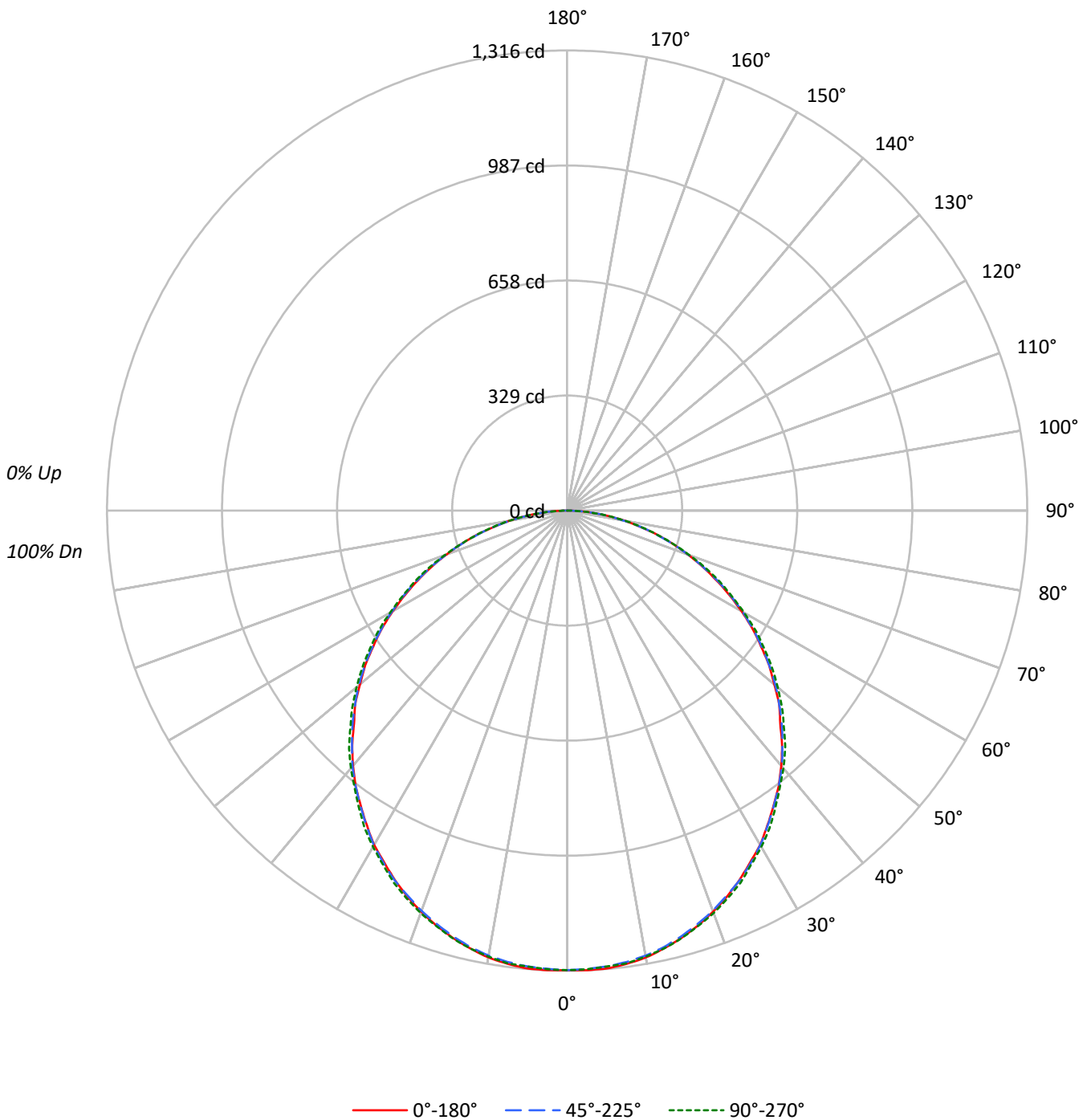
Lumens per Lamp: N/A
Luminaire Lumens: 3780.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1768	1768	1768
5°	1775	1768	1768
10°	1773	1766	1769
15°	1762	1756	1764
20°	1748	1744	1754
25°	1730	1733	1743
30°	1715	1717	1725
35°	1691	1693	1704
40°	1673	1678	1690
45°	1639	1652	1668
50°	1619	1628	1645
55°	1588	1595	1614
60°	1548	1559	1574
65°	1499	1512	1534
70°	1445	1451	1467
75°	1388	1373	1388
80°	1290	1269	1312
85°	1125	1147	1125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.3
10°-20°	356.2	9.4
20°-30°	538.0	14.2
30°-40°	646.9	17.1
40°-50°	671.0	17.8
50°-60°	609.2	16.1
60°-70°	470.0	12.4
70°-80°	280.7	7.4
80°-90°	83.5	2.2
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°	1018.7	27.0
0°-40°	1665.6	44.1
0°-60°	2945.8	77.9
0°-90°	3780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1314	1310	1309	1309	1309	125
15°	1265	1263	1261	1262	1266	357
25°	1166	1166	1167	1168	1174	537
35°	1029	1034	1031	1034	1038	645
45°	862	867	868	872	877	667
55°	677	680	680	684	688	606
65°	471	473	475	478	482	466
75°	267	264	264	266	267	281
85°	73	74	74	73	73	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.3	1314.3	1314.3	1314.3	1314.3
2.5°	1315.7	1315.7	1311.5	1312.9	1312.9
5°	1314.3	1310.1	1308.8	1308.8	1308.8
7.5°	1307.4	1303.3	1301.9	1303.3	1306.0
10°	1297.8	1292.3	1292.3	1292.3	1295.0
12.5°	1282.6	1279.9	1278.5	1277.1	1282.6
15°	1264.7	1263.4	1260.6	1262.0	1266.1
17.5°	1244.1	1241.3	1240.0	1244.1	1245.5
20°	1220.7	1217.9	1217.9	1222.1	1224.8
22.5°	1194.5	1194.5	1191.8	1195.9	1200.0
25°	1165.6	1165.6	1167.0	1168.4	1173.9
27.5°	1134.0	1135.4	1136.7	1139.5	1140.9
30°	1103.7	1102.3	1105.1	1107.8	1110.6
32.5°	1066.6	1069.3	1067.9	1074.8	1077.6
35°	1029.4	1033.5	1030.8	1033.5	1037.7
37.5°	993.6	995.0	993.6	999.1	999.1
40°	952.3	952.3	955.1	959.2	962.0
42.5°	909.7	911.0	911.0	916.6	923.4
45°	861.5	867.0	868.4	872.5	876.6
47.5°	823.0	821.6	823.0	827.1	834.0
50°	773.4	776.2	777.6	781.7	785.8
52.5°	728.0	729.4	729.4	733.5	739.0
55°	677.1	679.8	679.8	684.0	688.1
57.5°	628.9	627.5	630.3	634.4	639.9
60°	575.3	575.3	579.4	582.1	584.9
62.5°	523.0	524.3	527.1	531.2	531.2
65°	470.7	473.4	474.8	477.5	481.7
67.5°	418.4	419.7	421.1	423.9	428.0
70°	367.4	367.4	368.8	371.6	373.0
72.5°	316.5	315.2	315.2	320.7	319.3
75°	267.0	264.2	264.2	265.6	267.0
77.5°	213.3	211.9	214.7	216.1	216.1
80°	166.5	165.1	163.8	165.1	169.3
82.5°	118.4	118.4	117.0	118.4	118.4
85°	72.9	74.3	74.3	72.9	72.9
87.5°	34.4	33.0	33.0	31.7	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)