

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: P284414

Luminaire Tested: **22FP2540HE**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284414
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: 22FP2540HE
Description: 2x2 20W 4000K HE 80CRI

Light Source: -
Ballast/Driver: -

Summary

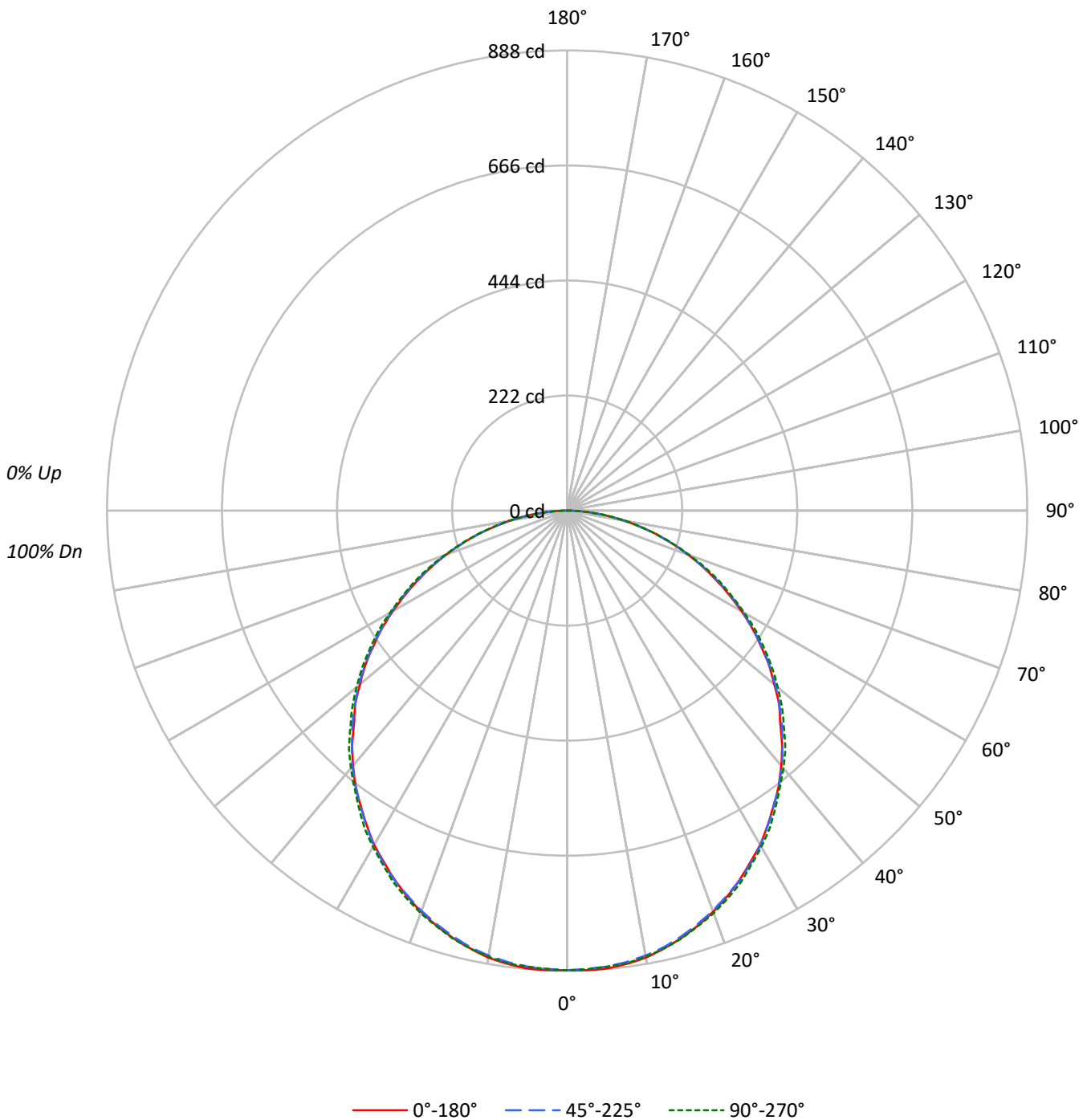
Lumens per Lamp: N/A
Luminaire Lumens: 2551.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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°	2387	2387	2387
5°	2396	2386	2386
10°	2393	2383	2388
15°	2378	2370	2381
20°	2359	2354	2367
25°	2336	2339	2352
30°	2315	2317	2329
35°	2282	2285	2301
40°	2258	2264	2281
45°	2213	2230	2251
50°	2185	2197	2220
55°	2144	2152	2179
60°	2089	2104	2124
65°	2022	2040	2070
70°	1951	1958	1980
75°	1874	1854	1874
80°	1742	1712	1770
85°	1519	1550	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.3
10°-20°	240.4	9.4
20°-30°	363.1	14.2
30°-40°	436.6	17.1
40°-50°	452.8	17.8
50°-60°	411.1	16.1
60°-70°	317.2	12.4
70°-80°	189.4	7.4
80°-90°	56.4	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°	687.5	27.0
0°-40°	1124.1	44.1
0°-60°	1988.0	77.9
0°-90°	2551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	887	884	883	883	883	84
15°	854	853	851	852	854	241
25°	787	787	788	788	792	363
35°	695	698	696	698	700	435
45°	581	585	586	589	592	450
55°	457	459	459	462	464	409
65°	318	320	320	322	325	314
75°	180	178	178	179	180	189
85°	49	50	50	49	49	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.0	887.0	887.0	887.0	887.0
2.5°	887.9	887.9	885.1	886.0	886.0
5°	887.0	884.2	883.2	883.2	883.2
7.5°	882.3	879.5	878.6	879.5	881.4
10°	875.8	872.1	872.1	872.1	874.0
12.5°	865.6	863.7	862.8	861.9	865.6
15°	853.5	852.6	850.7	851.7	854.5
17.5°	839.6	837.7	836.8	839.6	840.5
20°	823.8	821.9	821.9	824.7	826.6
22.5°	806.2	806.2	804.3	807.1	809.9
25°	786.7	786.7	787.6	788.5	792.2
27.5°	765.3	766.2	767.2	769.0	769.9
30°	744.9	743.9	745.8	747.6	749.5
32.5°	719.8	721.6	720.7	725.4	727.2
35°	694.7	697.5	695.6	697.5	700.3
37.5°	670.6	671.5	670.6	674.3	674.3
40°	642.7	642.7	644.6	647.3	649.2
42.5°	613.9	614.8	614.8	618.6	623.2
45°	581.4	585.1	586.0	588.8	591.6
47.5°	555.4	554.5	555.4	558.2	562.8
50°	522.0	523.8	524.7	527.5	530.3
52.5°	491.3	492.2	492.2	495.0	498.7
55°	456.9	458.8	458.8	461.6	464.4
57.5°	424.4	423.5	425.4	428.2	431.9
60°	388.2	388.2	391.0	392.9	394.7
62.5°	352.9	353.9	355.7	358.5	358.5
65°	317.6	319.5	320.4	322.3	325.1
67.5°	282.3	283.3	284.2	286.1	288.8
70°	248.0	248.0	248.9	250.8	251.7
72.5°	213.6	212.7	212.7	216.4	215.5
75°	180.2	178.3	178.3	179.2	180.2
77.5°	144.0	143.0	144.9	145.8	145.8
80°	112.4	111.5	110.5	111.5	114.2
82.5°	79.9	79.9	78.9	79.9	79.9
85°	49.2	50.2	50.2	49.2	49.2
87.5°	23.2	22.3	22.3	21.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)