

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: FAIL-SAFE

Report Number: 2732

Luminaire Tested: **MPR (READING LIGHT - 140 BX)**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: 2732  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MPR (READING LIGHT - 140 BX)  
Description: FAIL-SAFE 79/1/0 WALL WASHER(WAS 3PR NEO-RAY READING LIGHT)  
1/40 WATT - NO LOUVER  
Light Source: F40BX/835 3100 LUMENS  
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

**Summary**

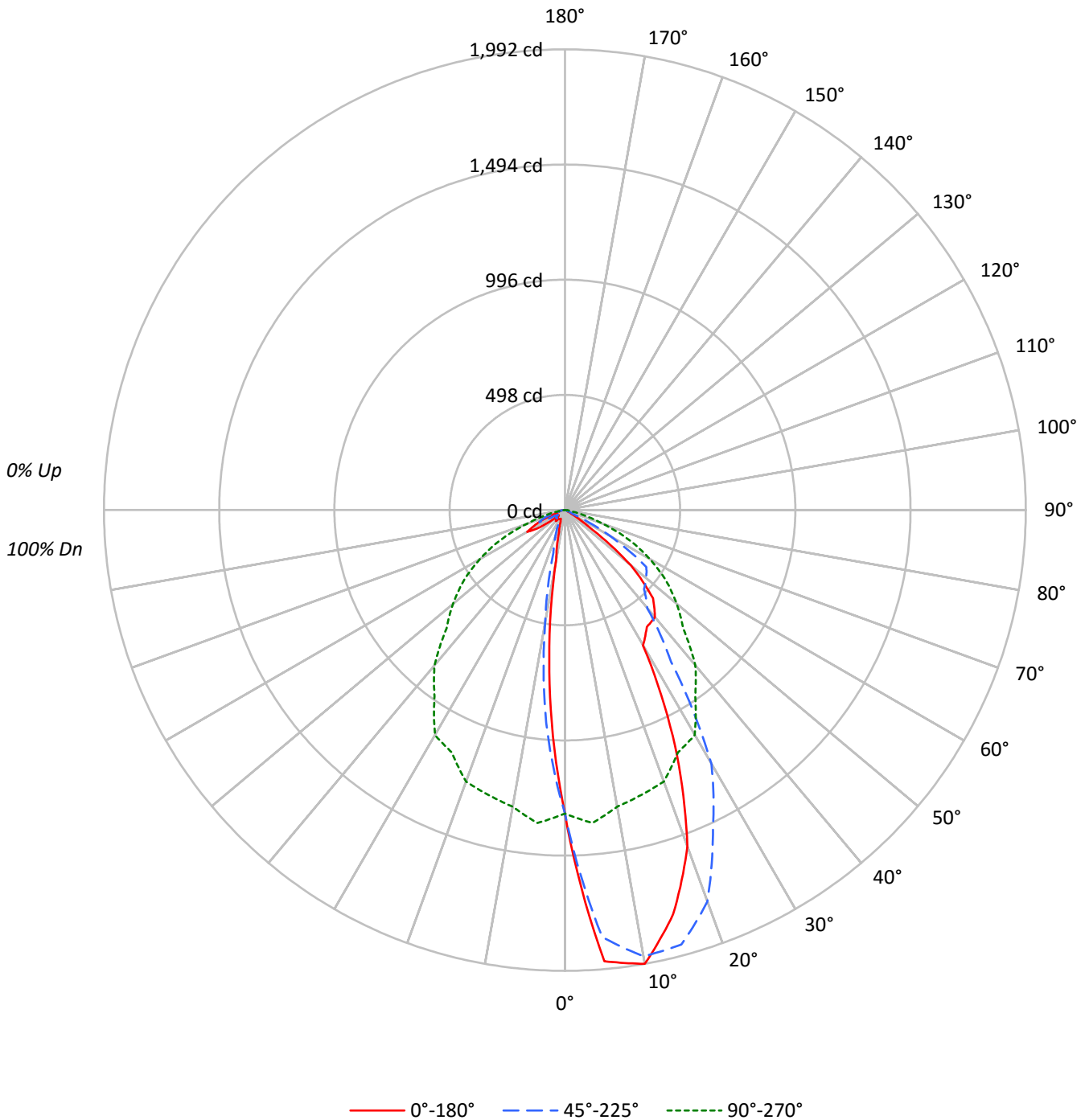
Lumens per Lamp: 3100 (1 lamp)  
Luminaire Lumens: 1832.4 lumens  
Efficiency: 59.1%  
Efficacy: 34.6 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 1.24 / 0.9  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 53  
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	0
RCR																		
0	70	70	70	70	69	69	69	69	66	66	66	63	63	63	60	60	60	59
1	66	64	62	60	64	62	60	59	60	58	57	58	56	55	55	55	54	53
2	61	57	54	51	60	56	53	51	54	52	49	52	50	48	51	49	47	46
3	57	52	48	45	55	51	47	44	49	46	43	48	45	43	46	44	42	41
4	53	47	42	39	51	46	42	39	45	41	38	43	40	38	42	40	37	36
5	49	43	38	35	48	42	38	35	41	37	34	40	37	34	39	36	34	33
6	46	39	35	31	45	39	34	31	38	34	31	37	33	31	36	33	31	29
7	43	36	32	28	42	36	31	28	35	31	28	34	31	28	33	30	28	27
8	40	33	29	26	40	33	29	26	32	29	26	32	28	26	31	28	26	25
9	38	31	27	24	37	31	27	24	30	26	24	30	26	24	29	26	24	23
10	36	29	25	22	35	29	25	22	28	25	22	28	24	22	27	24	22	21

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

	0°	90°	180°
0°	14122	14122	14122
5°	21156	14673	8169
10°	21772	14231	2361
15°	20159	14208	1092
20°	17732	14307	619
25°	13397	13729	487
30°	8402	13958	559
35°	8108	12904	604
40°	8501	12323	871
45°	8205	11006	624
50°	6229	10567	569
55°	2327	10040	2327
60°	732	9128	4047
65°	357	7870	3107
70°	315	5570	1196
75°	499	3452	1040
80°	620	1488	1302
85°	741	1606	1359



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	124.6	6.8	4.0	0°	1312	1312	1312	1312	1312	
10°-20°	309.8	16.9	10.0	5°	1958	1853	1358	924	756	180
20°-30°	379.7	20.7	12.2	15°	1809	1945	1275	191	98	502
30°-40°	345.1	18.8	11.1	25°	1128	1514	1156	64	41	509
40°-50°	294.0	16.0	9.5	35°	617	800	982	48	46	394
50°-60°	209.4	11.4	6.8	45°	539	484	723	48	41	396
60°-70°	120.4	6.6	3.9	55°	124	430	535	37	124	144
70°-80°	39.4	2.1	1.3	65°	14	38	309	122	122	18
80°-90°	9.9	0.5	0.3	75°	12	10	83	32	25	12
90°-100°	0.0	0.0	0.0	85°	6	6	13	13	11	6
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	814.1	44.4	26.3							
0°-40°	1159.3	63.3	37.4							
0°-60°	1662.7	90.7	53.6							
0°-90°	1832.4	100.0	59.1							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1832.4	100.0	59.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1312	1312	1312	1312	1312	1312	1312	1312	1312
5°	1958	1937	1853	1618	1358	1112	924	795	756
10°	1992	1993	1959	1804	1302	831	487	263	216
15°	1809	1856	1945	1874	1275	599	191	119	98
20°	1548	1608	1801	1893	1249	373	118	66	54
25°	1128	1250	1514	1783	1156	186	64	42	41
30°	676	758	1267	1662	1123	141	53	49	45
35°	617	613	800	1391	982	83	48	48	46
40°	605	597	555	1146	877	64	50	60	62
45°	539	532	484	851	723	48	48	53	41
50°	372	446	459	599	631	42	50	32	34
55°	124	210	430	366	535	41	37	87	124
60°	34	36	233	306	424	47	49	173	188
65°	14	20	38	247	309	44	122	143	122
70°	10	12	12	156	177	26	87	45	38
75°	12	12	10	29	83	51	32	25	25
80°	10	11	8	10	24	25	21	21	21
85°	6	6	6	6	13	14	13	11	11
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)