

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: CORELITE

Report Number: P256951

Luminaire Tested: **HGL-S-BF-40L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-40L930-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

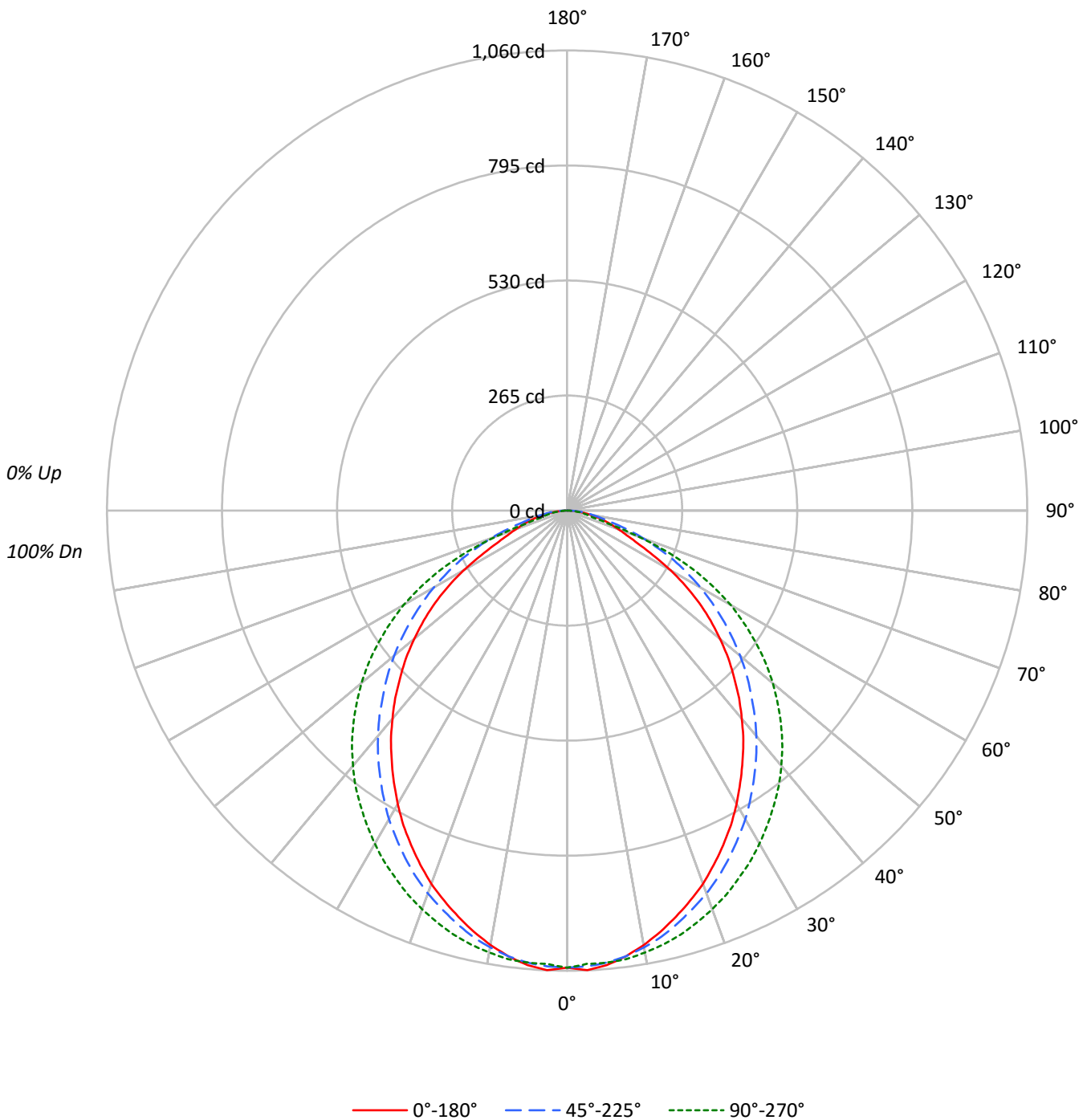
Lumens per Lamp: N/A
Luminaire Lumens: 2505.6 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

Input Watts (W): 29.6
Input Voltage (V): 120
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75					73				
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64					62				
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49					47				
6	72	59	51	45	70	59	50	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	36	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12364	12364	12364
5°	12386	12285	12273
10°	12110	12115	12229
15°	11766	11858	12151
20°	11425	11589	12020
25°	11001	11270	11866
30°	10563	10926	11718
35°	10081	10526	11541
40°	9574	10120	11351
45°	9001	9630	11087
50°	8360	9147	10735
55°	7582	8562	10229
60°	6445	7896	9494
65°	4936	7056	8135
70°	4269	5870	5267
75°	3924	4356	2462
80°	3494	3487	2103
85°	2921	2954	1573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.9
10°-20°	277.5	11.1
20°-30°	407.0	16.2
30°-40°	472.0	18.8
40°-50°	467.4	18.7
50°-60°	394.4	15.7
60°-70°	255.6	10.2
70°-80°	103.4	4.1
80°-90°	28.7	1.1
90°-100°	0.7	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°	783.5	31.3
0°-40°	1255.5	50.1
0°-60°	2117.3	84.5
0°-90°	2504.9	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2505.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1051	1040	1045	1044	1045	99
15°	968	964	984	1002	1011	273
25°	850	850	883	910	934	391
35°	704	709	751	791	830	440
45°	543	555	599	649	697	419
55°	372	391	438	489	531	330
65°	179	207	272	305	320	185
75°	87	91	108	88	63	93
85°	22	26	30	24	18	25
90°	0	4	7	5	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1059.7	1048.1	1051.0	1049.0	1045.2
5°	1051.0	1040.3	1045.2	1044.2	1045.2
7.5°	1035.5	1026.7	1035.5	1038.4	1042.3
10°	1016.1	1009.3	1021.9	1028.7	1033.5
12.5°	993.7	987.9	1005.4	1016.1	1023.8
15°	968.5	963.7	984.0	1001.5	1011.2
17.5°	942.3	938.4	961.7	984.0	994.7
20°	915.1	911.2	938.4	960.7	977.2
22.5°	883.1	881.2	912.2	935.5	957.8
25°	850.1	850.1	883.1	910.3	934.5
27.5°	817.1	817.1	852.0	882.1	912.2
30°	780.2	783.1	821.0	854.0	886.0
32.5°	742.4	747.2	786.1	822.9	858.8
35°	704.5	709.4	751.1	790.9	829.7
37.5°	666.7	673.5	715.2	756.9	800.6
40°	625.9	634.7	678.3	722.0	767.6
42.5°	586.1	595.9	639.5	686.1	733.7
45°	543.4	555.1	598.8	649.2	696.8
47.5°	503.7	515.3	560.9	610.4	658.0
50°	459.0	473.6	520.2	571.6	618.2
52.5°	416.3	432.8	478.4	530.8	576.4
55°	371.7	391.1	437.7	489.1	530.8
57.5°	324.1	347.4	395.9	445.4	483.3
60°	275.6	303.7	355.2	400.8	434.8
62.5°	223.2	256.2	312.5	355.2	379.4
65°	178.6	206.7	271.7	304.7	320.2
67.5°	148.5	165.0	227.1	251.3	251.3
70°	125.2	133.9	186.3	192.1	171.8
72.5°	105.8	110.6	145.6	131.0	98.0
75°	87.3	91.2	107.7	88.3	63.1
77.5°	69.9	72.8	81.5	67.0	49.5
80°	52.4	56.3	61.1	51.4	38.8
82.5°	36.9	39.8	45.6	37.8	28.1
85°	22.3	26.2	30.1	24.3	17.5
87.5°	9.7	12.6	16.5	12.6	7.8
90°	0.0	3.9	6.8	4.9	0.0
92.5°	0.0	0.0	1.0	1.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)