

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: HALO COMMERCIAL

Report Number: P21678

Luminaire Tested: **PD8V120-80VWWC_16PAR38LED**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P21678
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8V120-80VWWC_16PAR38LED
Description: HALO 8 INCH RECESSED LED WALL WASH DOWNLIGHT FIXTURE IN "A"
POSITION , VERTICAL LAMP, SPECULAR CLEAR TRIM AND LI KICKER.
----ABSOLUTE-PHOTOMETRY IS BASED ON CALIBRATION FACTORS
CREATED USING A 500 WATT, NIST TRACEABLE, OMNI_DIRECTIONAL
LAB LUMEN STANDARD IN THE GONIOPHOTOMETER WITH TEST DISTANCE
OF 28.75 FEET----
Light Source: (1) PAR 38 LED 16 WATTS
16E26PAR38
Ballast/Driver: CHROMA IN0061
CHROMA IN0061

Summary

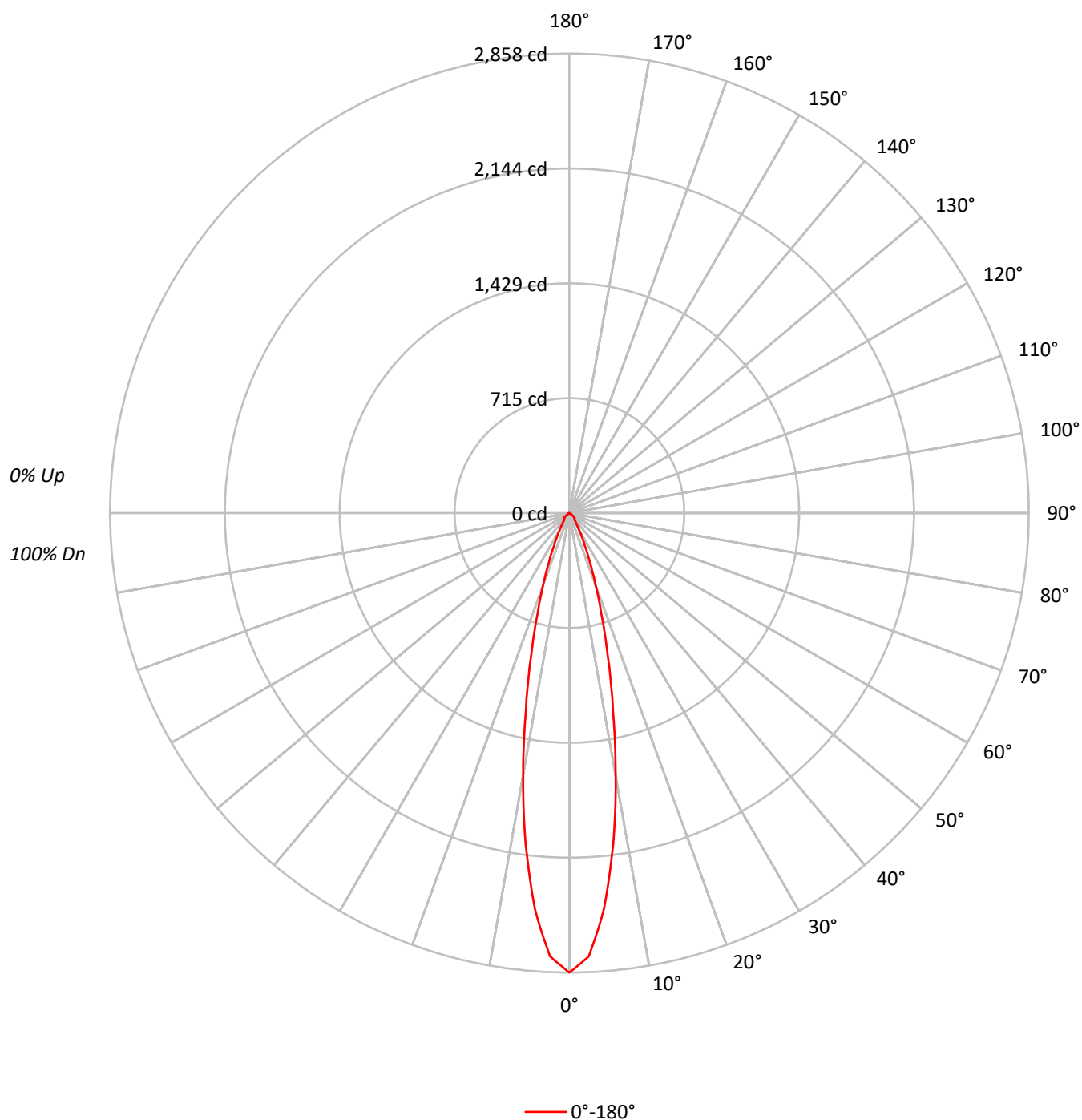
Lumens per Lamp: N/A
Luminaire Lumens: 687.4 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.41
Luminous Opening: Vertical Cylinder (Dia: 0.69' x H: 0.1')
CIE Type: Direct

Input Watts (W): 15.1
Input Voltage (V): NR
Input Current (Ain): 0.146
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 2 HR
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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91					91			
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87					87			
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83					83			
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79					79			
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76					76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	74	73					73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	78	74	72	71					71			
9	86	78	73	70	85	78	73	70	77	73	70	76	72	70	75	72	69	68					68			
10	83	75	71	68	82	75	71	68	74	70	68	74	70	67	73	70	67	66					66			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82870
5°	70776
10°	47244
15°	26369
20°	13760
25°	6950
30°	3630
35°	2131
40°	1605
45°	1592
50°	1441
55°	520
60°	176
65°	246
70°	281
75°	132
80°	81
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	30.5
10°-20°	260.0	37.8
20°-30°	115.3	16.8
30°-40°	45.6	6.6
40°-50°	35.2	5.1
50°-60°	14.2	2.1
60°-70°	4.9	0.7
70°-80°	2.4	0.3
80°-90°	0.4	0.1
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°	584.8	85.1
0°-40°	630.4	91.7
0°-60°	679.7	98.9
0°-90°	687.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2858	
5°	2471	210
15°	922	260
25°	236	115
35°	68	46
45°	46	35
55°	13	14
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2858
2.5°	2760
5°	2471
7.5°	2082
10°	1657
12.5°	1253
15°	922
17.5°	667
20°	476
22.5°	336
25°	236
27.5°	167
30°	120
32.5°	88
35°	68
37.5°	55
40°	49
42.5°	47
45°	46
47.5°	45
50°	39
52.5°	23
55°	13
57.5°	7
60°	4
62.5°	4
65°	5
67.5°	6
70°	5
72.5°	3
75°	2
77.5°	1
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)