

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: NEO-RAY

Report Number: ITL79717

Luminaire Tested: **282-R-1L35-ESTG-UDD-SI-95HT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL79717
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 282-R-1L35-ESTG-UDD-SI-95HT
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL
INTERIOR FINISH, 2 FORMED WHITE PAINTED METAL OUTBOARD
REFLECTORS/DRIVER COVERS, FORMED WHITE PAINTED METAL CIRCUIT
BOARD MOUNT, 2 WHITE CIRCUIT BOARDS EACH WITH 49 LEDS, 3-PIECE
FROSTED PLASTIC DIFFUSER IN FABRICATED WHITE PAINTED METAL
FRAME. DIFFUSER FROSTED SIDE UP.
Light Source: NINETY-EIGHT WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs),
VERTICAL BASE-UP POSITION.
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2331.5 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 1.86' x H: 0')
CIE Type: Direct

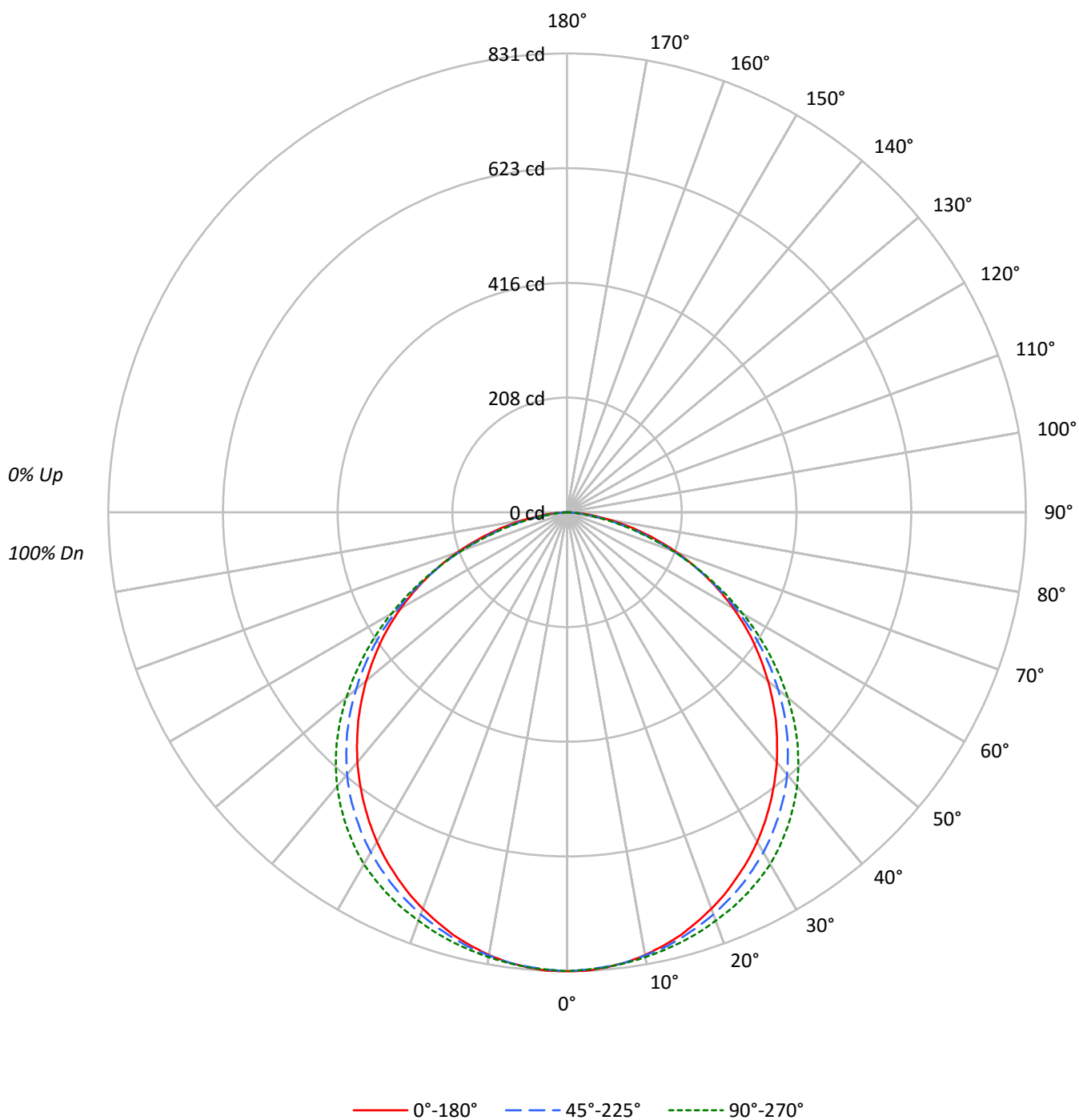
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	109	105	100	97	106	102	98	95		98	95	92			94	92	89			85
2	99	91	85	79	97	89	83	78		86	81	76			83	78	74			71
3	91	80	72	66	88	79	71	65		76	69	64			73	67	63			60
4	83	71	62	56	81	70	62	55		67	60	55			65	59	54			51
5	76	64	55	48	74	62	54	48		60	53	47			58	52	47			44
6	70	57	48	42	69	56	48	42		54	47	41			53	46	41			39
7	65	52	43	37	64	51	43	37		49	42	37			48	41	36			34
8	61	47	39	33	59	47	38	33		45	38	33			44	37	32			30
9	57	43	35	30	55	43	35	30		42	34	29			41	34	29			27
10	53	40	32	27	52	39	32	27		38	31	27			38	31	27			25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2662	2662	2662
5°	2659	2656	2659
10°	2648	2651	2661
15°	2630	2647	2670
20°	2604	2642	2683
25°	2577	2637	2704
30°	2549	2630	2722
35°	2511	2616	2722
40°	2471	2593	2710
45°	2424	2551	2673
50°	2367	2487	2601
55°	2307	2402	2496
60°	2230	2287	2358
65°	2122	2130	2160
70°	1976	1911	1901
75°	1758	1609	1560
80°	1439	1199	1144
85°	1066	772	735

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.4
10°-20°	225.4	9.7
20°-30°	344.1	14.8
30°-40°	418.3	17.9
40°-50°	433.4	18.6
50°-60°	384.0	16.5
60°-70°	278.2	11.9
70°-80°	140.7	6.0
80°-90°	28.8	1.2
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°	648.2	27.8
0°-40°	1066.5	45.7
0°-60°	1883.8	80.8
0°-90°	2331.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2331.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	827	827	826	827	827	79
15°	793	794	798	803	805	224
25°	729	734	746	759	765	336
35°	642	649	669	688	696	402
45°	535	544	563	581	590	412
55°	413	419	430	442	447	369
65°	280	279	281	283	285	277
75°	142	137	130	127	126	151
85°	29	24	21	20	20	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831	831	831	831	831
2.5°	831	830	829	829	829
5°	827	827	826	827	827
7.5°	822	821	822	823	823
10°	814	814	815	818	818
12.5°	804	805	808	811	812
15°	793	794	798	803	805
17.5°	779	781	787	794	797
20°	764	767	775	784	787
22.5°	748	751	761	772	777
25°	729	734	746	759	765
27.5°	710	715	729	745	751
30°	689	695	711	728	736
32.5°	666	673	691	709	717
35°	642	649	669	688	696
37.5°	617	625	646	665	673
40°	591	599	620	639	648
42.5°	563	572	592	611	620
45°	535	544	563	581	590
47.5°	505	514	532	549	557
50°	475	483	499	515	522
52.5°	444	452	465	479	485
55°	413	419	430	442	447
57.5°	381	385	394	403	408
60°	348	350	357	363	368
62.5°	314	315	319	323	326
65°	280	279	281	283	285
67.5°	245	243	242	243	244
70°	211	207	204	203	203
72.5°	176	172	166	164	163
75°	142	137	130	127	126
77.5°	109	103	96	92	91
80°	78	72	65	62	62
82.5°	51	45	40	37	38
85°	29	24	21	20	20
87.5°	12	9	8	7	7
90°	0	0	0	0	0

(END OF REPORT)