

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: P231704

Luminaire Tested: **S125-DR-1-30-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29677)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DR-1-30-X-0048-1-U-DD-1-W
Description: DEFINE 5 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2734.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.29
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')
CIE Type: Direct

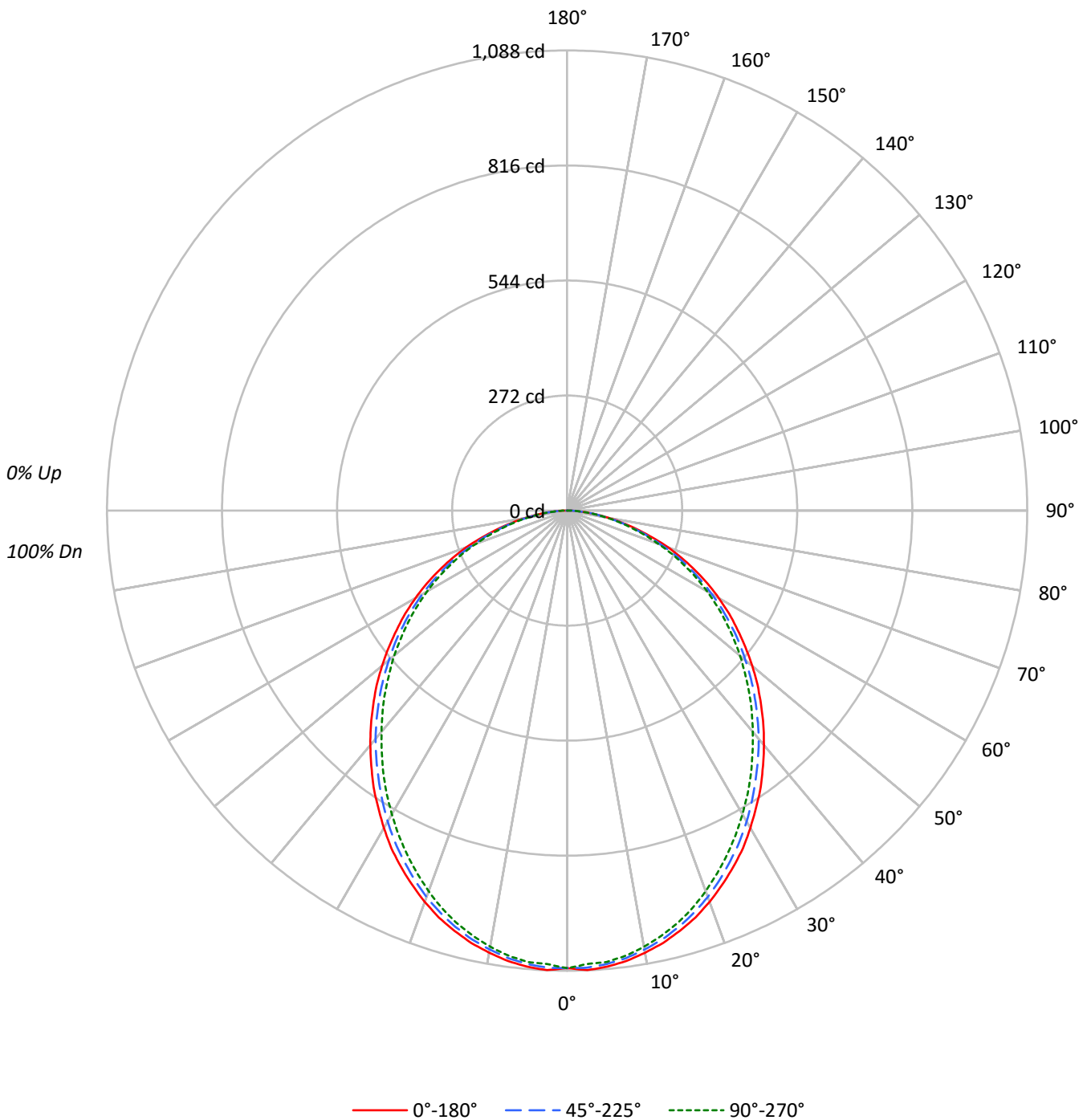
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7622	7622	7622
5°	7659	7611	7577
10°	7595	7540	7492
15°	7505	7435	7365
20°	7383	7290	7182
25°	7229	7103	6968
30°	7049	6908	6744
35°	6866	6683	6518
40°	6660	6483	6280
45°	6459	6257	6066
50°	6262	6029	5851
55°	6048	5812	5623
60°	5840	5570	5379
65°	5564	5291	5082
70°	5211	4873	4714
75°	4661	4424	4266
80°	4017	3863	3786
85°	3339	3266	3266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	3.7
10°-20°	286.3	10.5
20°-30°	419.2	15.3
30°-40°	484.9	17.7
40°-50°	483.5	17.7
50°-60°	423.3	15.5
60°-70°	314.4	11.5
70°-80°	173.7	6.4
80°-90°	47.0	1.7
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°	807.4	29.5
0°-40°	1292.2	47.3
0°-60°	2199.0	80.4
0°-90°	2734.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2734.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1083	1071	1076	1072	1071	103
15°	1029	1016	1019	1012	1010	290
25°	930	915	914	899	896	428
35°	798	786	777	761	758	499
45°	648	639	628	611	609	500
55°	492	486	473	460	458	441
65°	334	326	317	309	305	330
75°	171	167	162	159	157	182
85°	41	40	40	39	40	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.7	1081.7	1081.7	1081.7	1081.7
2.5°	1087.5	1076.0	1081.7	1078.8	1073.1
5°	1082.7	1071.2	1076.0	1072.1	1071.2
7.5°	1074.0	1062.5	1067.3	1062.5	1061.5
10°	1061.5	1050.0	1053.8	1049.0	1047.1
12.5°	1047.1	1034.6	1038.5	1031.7	1029.8
15°	1028.8	1016.3	1019.2	1012.5	1009.6
17.5°	1008.7	995.2	997.1	988.5	985.6
20°	984.6	972.1	972.1	959.6	957.7
22.5°	957.7	945.2	944.2	929.8	927.9
25°	929.8	915.4	913.5	899.0	896.2
27.5°	900.0	886.5	882.7	866.3	863.5
30°	866.3	852.9	849.0	831.7	828.8
32.5°	831.7	821.2	813.5	797.1	794.2
35°	798.1	785.6	776.9	760.6	757.7
37.5°	760.6	749.0	741.3	723.1	720.2
40°	724.0	713.5	704.8	686.5	682.7
42.5°	686.5	676.9	666.3	648.1	646.2
45°	648.1	639.4	627.9	610.6	608.7
47.5°	610.6	601.0	589.4	573.1	570.2
50°	571.2	562.5	550.0	535.6	533.7
52.5°	531.7	524.0	512.5	497.1	495.2
55°	492.3	485.6	473.1	459.6	457.7
57.5°	453.8	446.2	434.6	422.1	420.2
60°	414.4	406.7	395.2	384.6	381.7
62.5°	374.0	366.3	355.8	346.2	344.2
65°	333.7	326.0	317.3	308.7	304.8
67.5°	293.3	286.5	277.9	270.2	268.3
70°	252.9	246.2	236.5	230.8	228.8
72.5°	210.6	204.8	200.0	194.2	192.3
75°	171.2	167.3	162.5	158.7	156.7
77.5°	133.7	130.8	128.8	125.0	125.0
80°	99.0	97.1	95.2	93.3	93.3
82.5°	67.3	66.3	66.3	64.4	65.4
85°	41.3	40.4	40.4	39.4	40.4
87.5°	20.2	19.2	19.2	18.3	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)