

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: P231644

Luminaire Tested: **S125-DR-1-30-X-0048-1-U-DD-4-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33919)
Test Lab: INNOVATION CENTER-P3
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-4-W
Description: DEFINE 5 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH DROP LENS.
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2689.9 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.39' x L: 3.92' x H: 0.08')
CIE Type: Direct

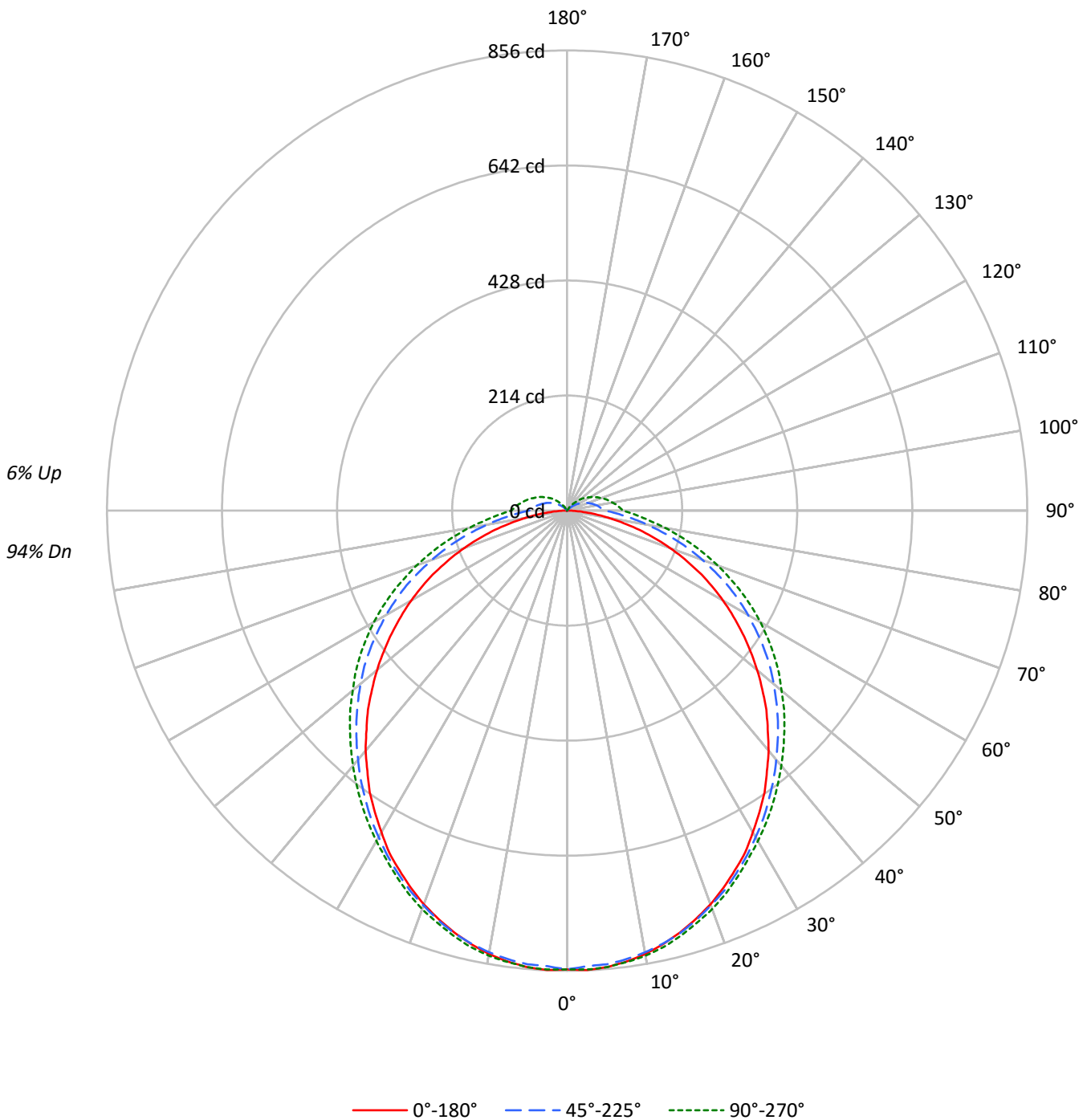
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	69	65	63
3	87	77	68	61	84	74	67	60	71	64	58	67	61	57	64	59	55	52
4	80	68	59	52	77	66	57	51	63	55	50	59	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	39	65	53	44	38	51	43	37	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	57	44	36	30	42	35	29	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	34	28	24	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6014	6014	6014
5°	6018	5906	5919
10°	5971	5801	5798
15°	5892	5680	5649
20°	5801	5527	5490
25°	5684	5374	5310
30°	5553	5208	5141
35°	5426	5047	4988
40°	5270	4886	4836
45°	5112	4739	4692
50°	4935	4591	4550
55°	4748	4437	4425
60°	4551	4254	4270
65°	4312	4052	4083
70°	3969	3780	3868
75°	3516	3498	3633
80°	2832	3156	3391
85°	1990	2918	3252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.0
10°-20°	230.0	8.5
20°-30°	344.0	12.8
30°-40°	410.2	15.2
40°-50°	426.5	15.9
50°-60°	394.9	14.7
60°-70°	319.1	11.9
70°-80°	212.0	7.9
80°-90°	107.9	4.0
90°-100°	61.4	2.3
100°-110°	46.1	1.7
110°-120°	30.7	1.1
120°-130°	17.4	0.6
130°-140°	7.6	0.3
140°-150°	1.4	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	654.8	24.3
0°-40°	1064.9	39.6
0°-60°	1886.3	70.1
0°-90°	2525.3	93.9
90°-120°	138.2	5.1
90°-150°	164.6	6.1
90°-180°	165.0	6.1
0°-180°	2689.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	852	851	847	852	852	81
15°	812	814	813	820	819	229
25°	738	745	745	752	751	340
35°	640	649	655	664	666	400
45°	524	540	554	568	571	404
55°	398	422	447	464	470	356
65°	270	298	330	351	357	267
75°	139	172	208	231	240	147
85°	31	66	105	130	138	35
90°	0	34	71	96	104	2
95°	0	28	62	87	95	0
105°	0	17	49	70	77	1
115°	0	7	34	53	59	0
125°	1	1	19	36	41	1
135°	1	0	6	19	23	1
145°	1	1	0	4	7	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°	853.5	853.5	853.5	853.5	853.5
2.5°	855.6	854.5	848.2	854.5	854.5
5°	852.4	851.4	847.1	852.4	852.4
7.5°	846.1	846.1	841.9	848.2	847.1
10°	837.6	838.7	834.5	840.8	840.8
12.5°	826.0	827.1	825.0	831.3	831.3
15°	812.3	814.4	813.3	819.7	818.6
17.5°	796.4	800.7	798.5	804.9	803.8
20°	779.5	783.8	781.6	789.0	789.0
22.5°	759.5	764.7	764.7	771.1	771.1
25°	738.3	744.7	744.7	752.1	751.0
27.5°	717.2	723.6	723.6	730.9	729.9
30°	690.8	699.3	701.4	709.8	709.8
32.5°	665.5	675.0	679.2	686.6	688.7
35°	640.1	648.6	654.9	664.4	666.5
37.5°	610.5	623.2	630.6	642.2	643.3
40°	583.1	595.7	605.2	617.9	620.0
42.5°	552.4	568.3	579.9	593.6	595.7
45°	523.9	539.8	554.5	568.3	571.4
47.5°	492.2	511.2	528.1	542.9	547.2
50°	461.6	481.7	501.7	517.6	520.7
52.5°	429.9	452.1	475.3	491.2	496.5
55°	398.2	421.5	446.8	463.7	470.0
57.5°	366.5	391.9	417.2	436.2	442.6
60°	334.8	360.2	388.7	407.7	415.1
62.5°	303.2	328.5	359.1	379.2	386.6
65°	270.4	297.9	329.6	350.7	357.0
67.5°	236.6	266.2	297.9	320.1	326.4
70°	203.9	234.5	267.2	290.5	297.9
72.5°	171.1	202.8	237.7	260.9	268.3
75°	139.4	172.2	208.1	231.3	239.8
77.5°	107.7	142.6	178.5	202.8	211.3
80°	78.2	114.1	151.0	175.3	184.8
82.5°	52.8	88.7	126.8	152.1	159.5
85°	30.6	66.5	104.6	129.9	138.4
87.5°	13.7	48.6	86.6	110.9	119.4
90°	0.0	33.8	70.8	96.1	103.5
92.5°	0.0	30.6	66.5	90.8	99.3
95°	0.0	27.5	62.3	86.6	95.1
97.5°	0.0	25.4	59.2	82.4	90.8
100°	0.0	22.2	56.0	78.2	85.6
102.5°	0.0	20.1	51.8	73.9	81.3
105°	0.0	16.9	48.6	69.7	77.1
107.5°	1.1	14.8	44.4	65.5	72.9
110°	1.1	12.7	41.2	61.3	67.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.5	37.0	57.0	63.4
115°	0.0	7.4	33.8	52.8	59.2
117.5°	0.0	5.3	29.6	48.6	54.9
120°	1.1	3.2	26.4	44.4	49.6
122.5°	1.1	1.1	23.2	39.1	45.4
125°	1.1	1.1	19.0	35.9	41.2
127.5°	0.0	1.1	15.8	31.7	37.0
130°	1.1	0.0	12.7	27.5	32.7
132.5°	1.1	1.1	9.5	23.2	28.5
135°	1.1	0.0	6.3	19.0	23.2
137.5°	1.1	0.0	4.2	14.8	19.0
140°	1.1	1.1	1.1	11.6	14.8
142.5°	1.1	1.1	0.0	7.4	10.6
145°	1.1	1.1	0.0	4.2	7.4
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)