

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: P231705

Luminaire Tested: **S125-DR-1-35-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231705  
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-1-35-X-0048-1-U-DD-1-W  
Description: DEFINE 5 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

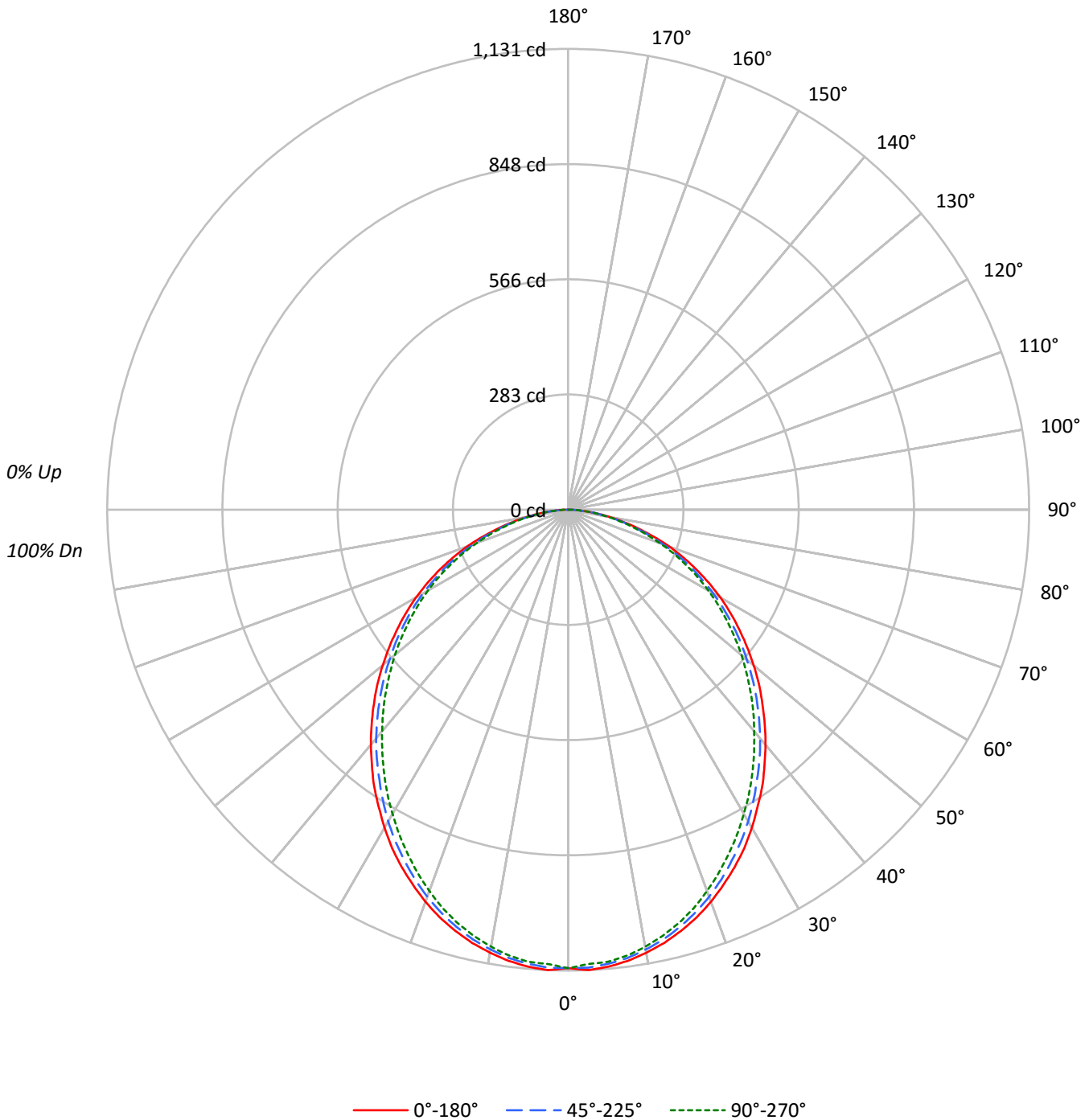
Lumens per Lamp: N/A  
Luminaire Lumens: 2843.5 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.29  
Luminous Opening: Rectangular (W 0.39' x L: 3.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.8  
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°	7928	7928	7928
5°	7965	7915	7880
10°	7900	7842	7792
15°	7806	7733	7660
20°	7679	7581	7469
25°	7519	7386	7246
30°	7331	7185	7014
35°	7140	6951	6779
40°	6927	6743	6531
45°	6717	6507	6308
50°	6512	6271	6084
55°	6290	6044	5848
60°	6074	5792	5595
65°	5786	5502	5286
70°	5419	5068	4904
75°	4846	4601	4438
80°	4180	4017	3936
85°	3477	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	3.7
10°-20°	297.8	10.5
20°-30°	436.0	15.3
30°-40°	504.3	17.7
40°-50°	502.8	17.7
50°-60°	440.2	15.5
60°-70°	327.0	11.5
70°-80°	180.6	6.4
80°-90°	48.9	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°	839.7	29.5
0°-40°	1343.9	47.3
0°-60°	2287.0	80.4
0°-90°	2843.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2843.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1126	1114	1119	1115	1114	107
15°	1070	1057	1060	1053	1050	302
25°	967	952	950	935	932	445
35°	830	817	808	791	788	518
45°	674	665	653	635	633	520
55°	512	505	492	478	476	458
65°	347	339	330	321	317	343
75°	178	174	169	165	163	190
85°	43	42	42	41	42	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125	1125	1125	1125	1125
2.5°	1131	1119	1125	1122	1116
5°	1126	1114	1119	1115	1114
7.5°	1117	1105	1110	1105	1104
10°	1104	1092	1096	1091	1089
12.5°	1089	1076	1080	1073	1071
15°	1070	1057	1060	1053	1050
17.5°	1049	1035	1037	1028	1025
20°	1024	1011	1011	998	996
22.5°	996	983	982	967	965
25°	967	952	950	935	932
27.5°	936	922	918	901	898
30°	901	887	883	865	862
32.5°	865	854	846	829	826
35°	830	817	808	791	788
37.5°	791	779	771	752	749
40°	753	742	733	714	710
42.5°	714	704	693	674	672
45°	674	665	653	635	633
47.5°	635	625	613	596	593
50°	594	585	572	557	555
52.5°	553	545	533	517	515
55°	512	505	492	478	476
57.5°	472	464	452	439	437
60°	431	423	411	400	397
62.5°	389	381	370	360	358
65°	347	339	330	321	317
67.5°	305	298	289	281	279
70°	263	256	246	240	238
72.5°	219	213	208	202	200
75°	178	174	169	165	163
77.5°	139	136	134	130	130
80°	103	101	99	97	97
82.5°	70	69	69	67	68
85°	43	42	42	41	42
87.5°	21	20	20	19	20
90°	0	0	0	0	0

(END OF REPORT)