

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027189

Luminaire Tested: S125RDIP-B375D610UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027189
REPORT IS A COMBINATION OF REPORTS P1005450 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B375D610UB2750-4F0-XX-W2A-F_2700K
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

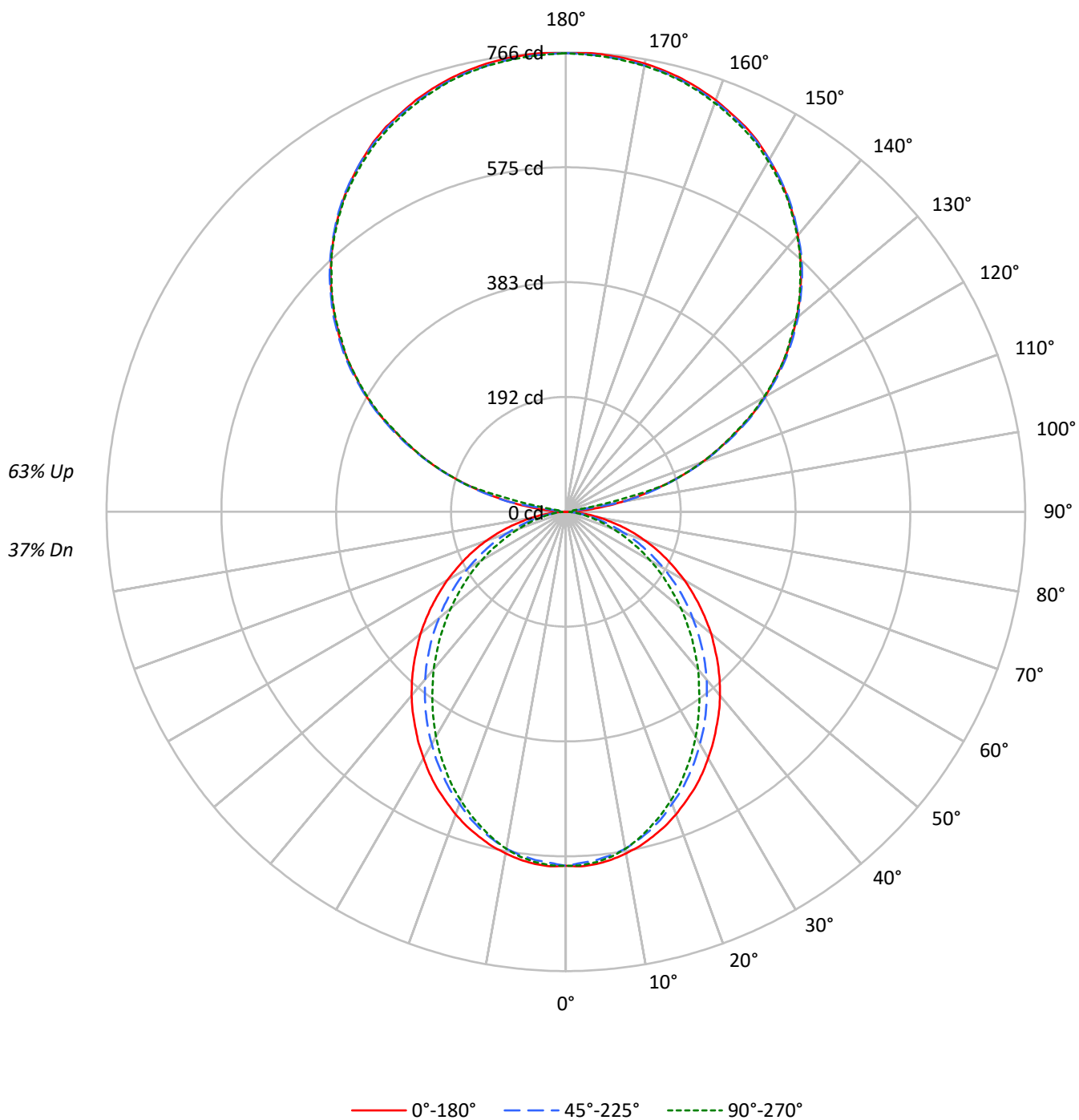
Lumens per Lamp: N/A
Luminaire Lumens: 3745.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27
4	72	62	54	48	65	57	50	45	46	41	38	37	33	31	28	26	24
5	66	55	47	42	60	50	44	38	41	36	32	33	29	27	25	23	21
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18
7	57	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3783	3783	3783
5°	3783	3689	3695
10°	3747	3596	3564
15°	3694	3466	3393
20°	3628	3309	3213
25°	3553	3156	3019
30°	3461	2988	2816
35°	3366	2818	2601
40°	3277	2642	2390
45°	3169	2453	2171
50°	3061	2252	1946
55°	2934	2055	1714
60°	2804	1828	1472
65°	2650	1576	1213
70°	2470	1283	955
75°	2221	964	696
80°	1874	625	469
85°	1401	336	265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.5
10°-20°	155.3	4.1
20°-30°	225.2	6.0
30°-40°	256.5	6.9
40°-50°	250.0	6.7
50°-60°	210.4	5.6
60°-70°	147.5	3.9
70°-80°	75.6	2.0
80°-90°	20.0	0.5
90°-100°	26.0	0.7
100°-110°	172.6	4.6
110°-120°	310.8	8.3
120°-130°	398.9	10.7
130°-140°	429.0	11.5
140°-150°	402.7	10.8
150°-160°	325.7	8.7
160°-170°	210.6	5.6
170°-180°	72.6	1.9
0°-30°	436.0	11.6
0°-40°	692.6	18.5
0°-60°	1153.1	30.8
0°-90°	1396.1	37.3
90°-120°	509.3	13.6
90°-150°	1739.8	46.5
90°-180°	2349.0	62.7
0°-180°	3745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	588	583	587	586	56
15°	561	558	548	548	544	158
25°	508	502	485	479	474	234
35°	438	427	407	394	388	274
45°	358	346	321	303	297	277
55°	272	258	233	213	206	243
65°	184	169	145	128	121	182
75°	98	85	66	56	53	104
85°	24	16	14	14	13	27
90°	1	5	9	12	14	3
95°	32	31	9	12	12	40
105°	167	169	169	169	168	177
115°	313	316	316	314	311	310
125°	445	449	449	447	445	397
135°	555	558	557	556	553	428
145°	643	644	644	645	642	402
155°	708	705	706	708	703	326
165°	748	744	745	748	744	211
175°	765	761	762	766	761	73
180°	765	765	765	765	765	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.4	590.4	590.4	590.4	590.4
2.5°	591.8	590.4	586.0	590.4	590.0
5°	589.5	587.8	582.9	587.3	586.4
7.5°	585.1	583.3	577.5	581.1	580.2
10°	578.4	577.1	570.8	572.2	570.8
12.5°	570.8	569.0	560.1	561.0	558.8
15°	560.6	557.9	548.5	548.1	544.1
17.5°	549.9	545.8	534.7	532.5	529.3
20°	536.9	532.5	518.2	516.0	512.0
22.5°	522.7	518.2	503.0	498.1	495.0
25°	508.4	501.7	485.2	479.4	474.5
27.5°	492.3	484.3	466.9	459.3	454.4
30°	474.5	466.0	447.3	437.0	433.0
32.5°	457.1	446.8	427.7	416.1	410.7
35°	437.9	427.2	407.2	394.2	388.0
37.5°	419.6	406.7	386.2	371.0	364.8
40°	400.0	386.6	365.2	348.3	342.9
42.5°	379.5	365.7	343.4	327.3	318.9
45°	358.5	345.6	321.1	303.2	296.6
47.5°	336.7	323.3	298.8	280.5	272.9
50°	316.2	301.5	276.0	257.3	250.6
52.5°	293.9	278.7	255.1	234.6	227.9
55°	272.0	257.8	232.8	212.7	205.6
57.5°	249.7	234.6	210.5	190.9	184.6
60°	228.3	212.7	188.6	169.0	162.3
62.5°	205.6	190.9	166.3	148.5	141.8
65°	184.2	169.0	145.4	127.5	120.9
67.5°	162.8	147.6	124.9	107.9	102.6
70°	140.9	125.8	103.5	89.6	84.3
72.5°	119.5	104.8	84.3	71.8	68.7
75°	98.1	84.7	66.0	56.2	53.1
77.5°	76.3	65.6	49.9	42.4	39.7
80°	58.0	47.3	34.8	30.8	29.9
82.5°	40.1	30.8	23.2	21.9	21.4
85°	24.5	16.5	14.3	13.8	13.4
87.5°	10.3	7.1	6.7	6.7	6.2
90°	0.6	5.1	9.1	11.9	13.6
92.5°	10.8	5.7	9.1	11.9	12.5
95°	32.3	30.6	9.1	11.9	11.9
97.5°	60.7	64.1	10.2	11.3	11.9
100°	94.7	96.4	98.6	14.2	11.9
102.5°	129.2	131.5	132.6	133.8	86.2
105°	166.6	168.9	168.9	168.9	168.3
107.5°	205.2	205.2	206.3	206.9	204.6
110°	242.6	242.6	243.7	242.0	242.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	277.7	279.4	280.0	277.7	276.6
115°	312.9	315.7	316.3	314.0	310.6
117.5°	349.7	349.7	352.0	348.6	347.5
120°	383.7	383.2	384.9	383.7	380.9
122.5°	413.8	416.6	417.2	416.1	412.7
125°	445.0	448.9	448.9	446.7	445.0
127.5°	475.0	477.8	477.3	476.1	471.6
130°	502.2	505.0	505.6	503.9	501.1
132.5°	529.4	532.8	531.1	531.1	528.3
135°	554.9	558.3	557.2	556.1	552.7
137.5°	578.7	582.1	581.0	581.0	578.2
140°	602.0	603.1	602.5	603.7	600.3
142.5°	622.9	623.5	624.6	624.6	621.2
145°	643.4	644.5	644.5	645.1	641.7
147.5°	661.5	661.5	662.1	662.6	658.7
150°	678.5	677.4	678.5	679.6	675.1
152.5°	694.9	692.1	693.2	694.4	690.4
155°	708.5	705.1	706.3	708.0	703.4
157.5°	719.3	717.6	717.6	719.3	714.8
160°	730.6	727.2	727.8	730.1	725.5
162.5°	739.7	736.3	736.9	740.3	735.2
165°	747.7	744.3	744.8	748.2	743.7
167.5°	753.9	750.5	751.1	755.0	749.9
170°	759.0	755.0	755.6	760.1	755.0
172.5°	762.4	758.4	759.6	763.5	758.4
175°	764.7	761.3	761.8	766.4	761.3
177.5°	766.4	763.0	763.5	767.5	763.0
180°	764.7	764.7	764.7	764.7	764.7

(END OF REPORT)