

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: P1027922

Luminaire Tested: S125DIP-B375D610UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027922
REPORT IS A COMBINATION OF REPORTS P1002053 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

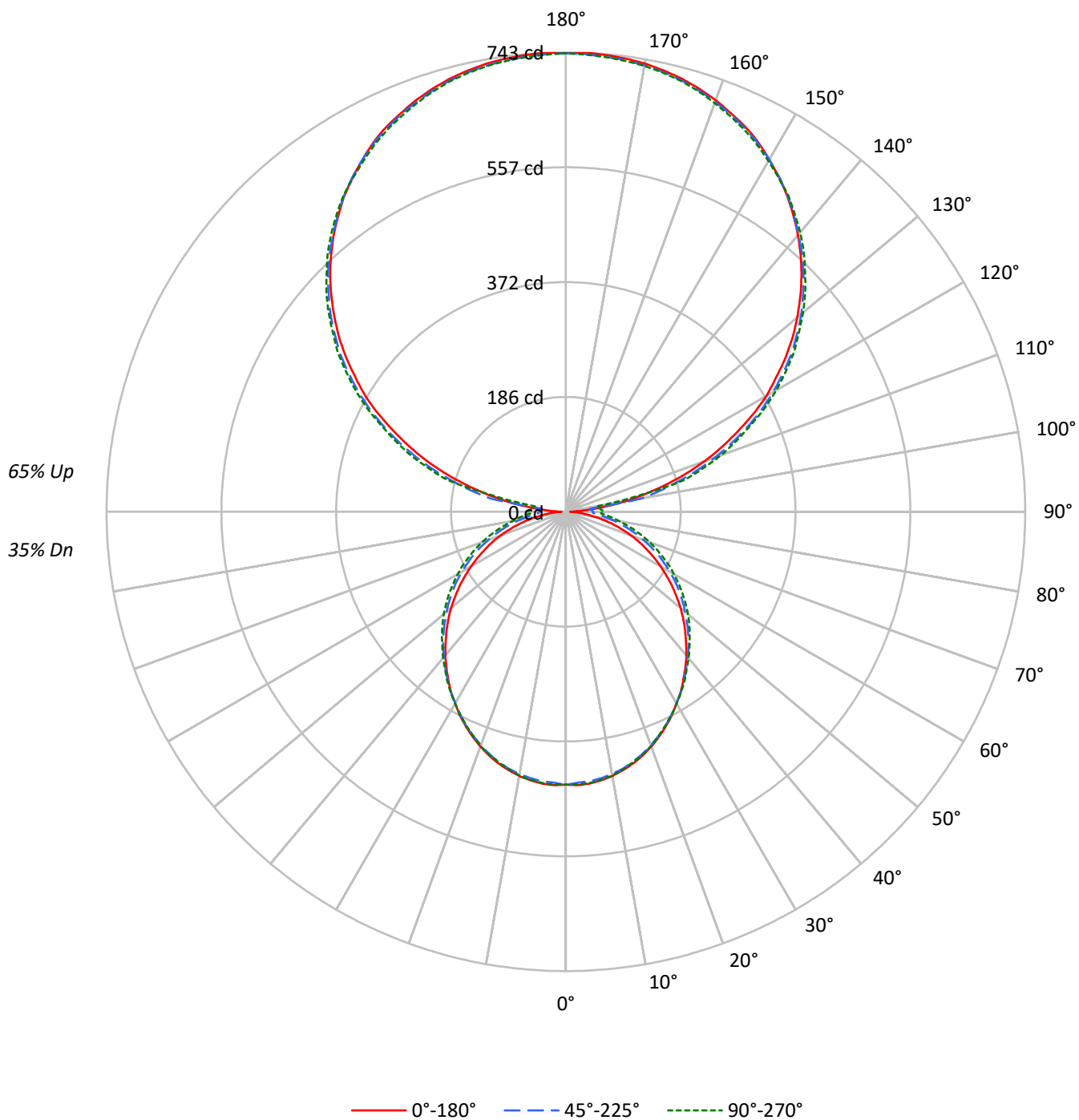
Lumens per Lamp: N/A
Luminaire Lumens: 3646.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V):
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	75	75	75	58	58	58	43	43	43
1	94	89	85	82	85	81	78	75	65	63	60	50	49	47	37	36	35
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29
3	78	68	61	55	70	62	55	50	50	45	41	39	35	33	28	26	24
4	71	60	52	46	64	55	48	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	49	41	36	39	34	30	31	27	24	23	20	18
6	60	48	40	34	54	43	36	31	35	30	26	28	24	21	20	18	16
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.1
10°-20°	118.5	3.3
20°-30°	176.3	4.8
30°-40°	208.8	5.7
40°-50°	215.8	5.9
50°-60°	198.8	5.5
60°-70°	160.7	4.4
70°-80°	107.6	2.9
80°-90°	56.7	1.6
90°-100°	56.5	1.5
100°-110°	190.4	5.2
110°-120°	316.8	8.7
120°-130°	395.6	10.9
130°-140°	419.9	11.5
140°-150°	391.3	10.7
150°-160°	315.9	8.7
160°-170°	204.3	5.6
170°-180°	70.4	1.9
0°-30°	336.6	9.2
0°-40°	545.3	15.0
0°-60°	960.0	26.3
0°-90°	1284.9	35.2
90°-120°	563.7	15.5
90°-150°	1770.5	48.6
90°-180°	2361.0	64.8
0°-180°	3646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	7	26	44	57	62	6
95°	37	47	40	53	56	43
105°	166	175	188	196	199	175
115°	306	312	324	329	328	303
125°	433	437	445	450	450	387
135°	539	542	544	548	547	416
145°	624	625	625	628	626	390
155°	687	684	685	687	682	317
165°	725	722	722	726	721	205
175°	742	738	739	743	738	71
180°	742	742	742	742	742	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	7.4	25.7	44.3	56.9	61.7
92.5°	16.5	24.1	42.5	54.8	58.4
95°	36.9	46.6	40.4	52.6	55.6
97.5°	64.0	77.7	39.8	49.9	53.5
100°	96.6	107.3	123.3	50.5	50.9
102.5°	129.6	140.0	154.6	164.3	120.8
105°	165.5	174.6	187.6	196.2	198.8
107.5°	202.5	208.5	222.2	231.3	231.7
110°	238.3	243.5	256.7	263.3	266.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.4	277.9	290.2	295.8	297.7
115°	306.0	311.8	323.6	329.2	328.5
117.5°	341.4	343.5	356.5	360.6	362.5
120°	374.4	375.1	386.7	393.0	392.8
122.5°	403.0	406.2	416.3	422.1	421.4
125°	433.2	436.7	445.4	450.1	450.5
127.5°	462.0	464.3	471.1	476.5	474.7
130°	488.3	490.7	497.2	501.7	501.0
132.5°	514.3	517.6	520.3	526.3	525.3
135°	539.1	541.9	543.9	548.4	547.2
137.5°	562.2	564.9	565.6	570.8	569.8
140°	584.2	585.3	585.2	591.0	589.5
142.5°	604.5	604.7	605.8	609.7	608.1
145°	624.3	625.0	625.0	627.8	626.2
147.5°	641.5	641.5	642.1	643.5	640.5
150°	658.0	656.9	658.0	659.1	655.1
152.5°	673.9	671.2	672.3	673.4	669.5
155°	687.1	683.8	684.9	686.6	682.2
157.5°	697.6	695.9	695.9	697.6	693.2
160°	708.6	705.3	705.8	708.0	703.6
162.5°	717.4	714.1	714.6	717.9	713.0
165°	725.1	721.8	722.3	725.6	721.2
167.5°	731.1	727.8	728.4	732.2	727.3
170°	736.1	732.2	732.8	737.2	732.2
172.5°	739.4	735.5	736.6	740.5	735.5
175°	741.6	738.3	738.8	743.2	738.3
177.5°	743.2	739.9	740.5	744.3	739.9
180°	741.6	741.6	741.6	741.6	741.6

(END OF REPORT)