

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: P1027834

Luminaire Tested: S125DIP-B375D1270UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027834
REPORT IS A COMBINATION OF REPORTS P1001935 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB50-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

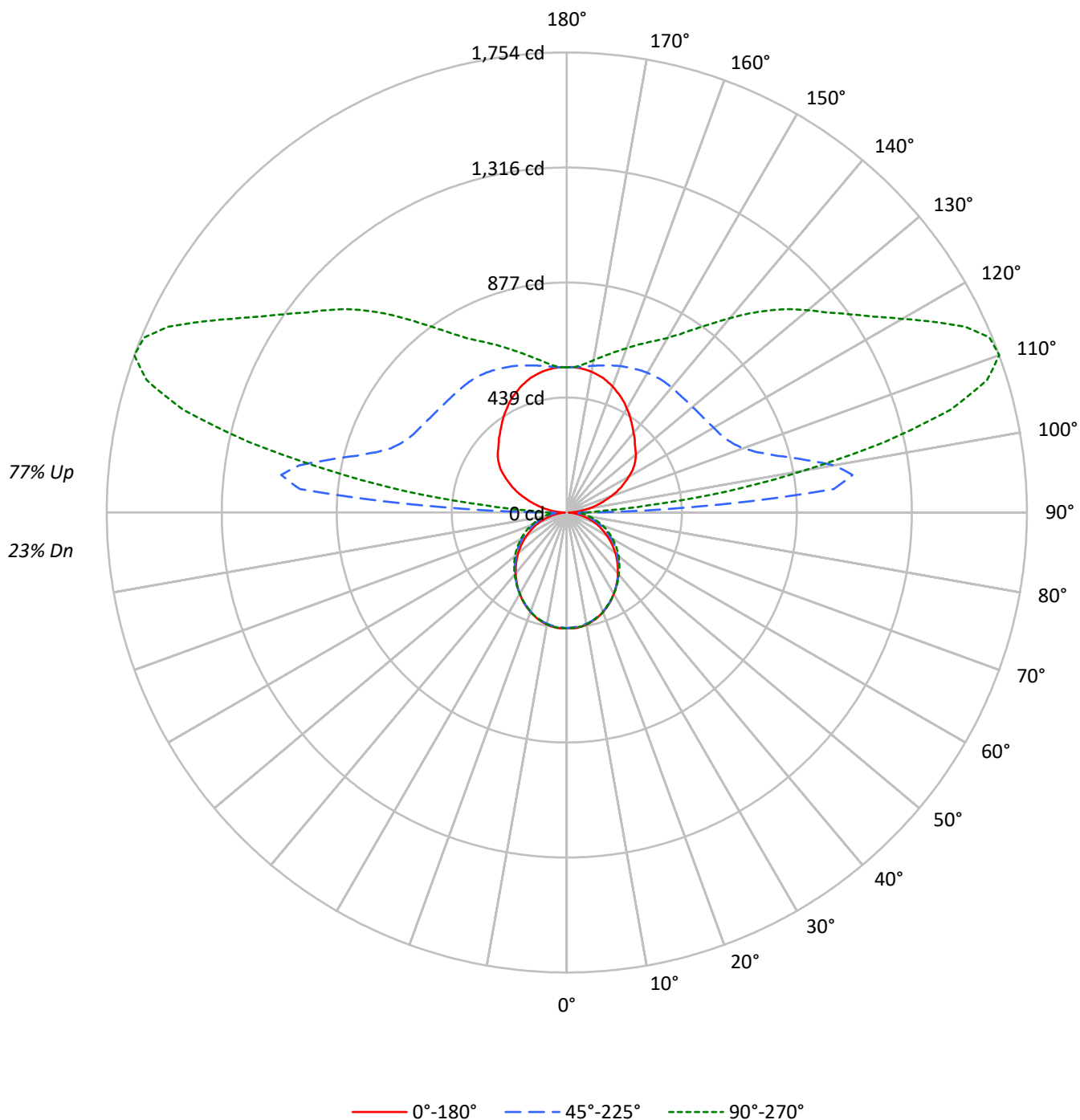
Lumens per Lamp: N/A
Luminaire Lumens: 5537.5 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
Input Current (A_{in}): 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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	32	32	32	32	32	23
1	91	87	83	80	81	77	74	71	59	57	55	43	41	40	27	27	26	26	26	19
2	83	76	70	65	73	67	62	58	52	48	45	37	35	33	24	23	21	21	21	15
3	76	66	59	54	67	59	53	48	45	41	38	33	30	28	21	19	18	18	18	13
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	15	15	15	11
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	17	15	13	13	13	10
6	58	46	39	33	51	41	35	30	32	27	24	23	20	18	15	13	12	12	12	8
7	54	42	34	29	47	37	31	26	29	24	21	21	18	15	14	12	10	10	10	7
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9	9	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	14	12	12	10	8	8	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	11	9	7	7	7	5

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	0.8
10°-20°	118.5	2.1
20°-30°	176.3	3.2
30°-40°	208.8	3.8
40°-50°	215.8	3.9
50°-60°	198.8	3.6
60°-70°	160.7	2.9
70°-80°	107.6	1.9
80°-90°	57.8	1.0
90°-100°	448.4	8.1
100°-110°	889.4	16.1
110°-120°	824.6	14.9
120°-130°	663.5	12.0
130°-140°	529.9	9.6
140°-150°	397.8	7.2
150°-160°	279.6	5.0
160°-170°	164.8	3.0
170°-180°	53.6	1.0
0°-30°	336.6	6.1
0°-40°	545.3	9.8
0°-60°	960.0	17.3
0°-90°	1286.0	23.2
90°-120°	2162.4	39.0
90°-150°	3753.6	67.8
90°-180°	4252.0	76.8
0°-180°	5537.5	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°	8	31	53	69	74	7
95°	42	126	1021	490	306	43
105°	130	187	833	1626	1515	137
115°	228	278	667	1425	1675	225
125°	314	368	633	1131	1318	279
135°	367	441	622	943	1090	285
145°	427	488	621	775	855	268
155°	487	524	605	684	714	224
165°	532	546	581	616	625	150
175°	553	553	557	564	562	53
180°	554	554	554	554	554	

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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°	8.0	30.8	53.4	68.8	74.2
92.5°	22.8	110.2	479.2	162.2	128.9
95°	42.4	125.8	1020.9	490.0	306.5
97.5°	62.1	133.4	1098.5	849.5	617.0
100°	83.0	149.0	1036.0	1182.4	910.3
102.5°	105.9	167.2	928.2	1463.8	1238.7
105°	130.1	187.2	833.3	1626.4	1515.0
107.5°	153.1	208.8	762.4	1671.0	1680.3
110°	178.3	231.5	714.8	1624.8	1754.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	204.0	254.3	686.3	1530.4	1743.4
115°	228.2	277.5	666.8	1425.4	1675.4
117.5°	250.1	301.3	654.9	1329.5	1574.2
120°	272.4	324.6	646.5	1249.0	1476.1
122.5°	295.4	346.6	639.2	1183.8	1389.0
125°	314.3	367.6	633.1	1131.3	1317.6
127.5°	329.6	388.3	629.0	1085.5	1252.2
130°	344.1	408.4	625.5	1039.7	1199.8
132.5°	354.9	426.3	623.8	990.4	1147.5
135°	367.1	440.9	622.1	943.2	1089.8
137.5°	382.8	454.8	621.9	894.0	1029.7
140°	395.7	466.6	621.7	848.6	966.6
142.5°	411.3	477.4	621.9	809.6	907.8
145°	426.9	488.5	620.8	775.4	854.7
147.5°	443.3	498.6	618.6	746.2	806.8
150°	457.8	507.5	615.2	722.4	768.6
152.5°	473.4	516.4	610.8	702.9	739.2
155°	486.8	523.7	605.2	684.0	713.5
157.5°	499.1	531.0	599.6	666.0	690.1
160°	511.4	536.5	594.0	648.2	666.6
162.5°	521.4	542.1	587.3	632.0	645.4
165°	531.5	546.0	580.6	615.8	625.3
167.5°	538.2	548.2	573.9	600.8	606.3
170°	544.9	551.0	568.3	586.2	589.6
172.5°	549.4	552.2	561.6	574.4	573.9
175°	552.7	552.7	557.2	563.9	561.6
177.5°	554.9	552.7	553.8	557.2	553.8
180°	553.8	553.8	553.8	553.8	553.8

(END OF REPORT)