

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: P1027832

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027832
REPORT IS A COMBINATION OF REPORTS P1001933 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-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

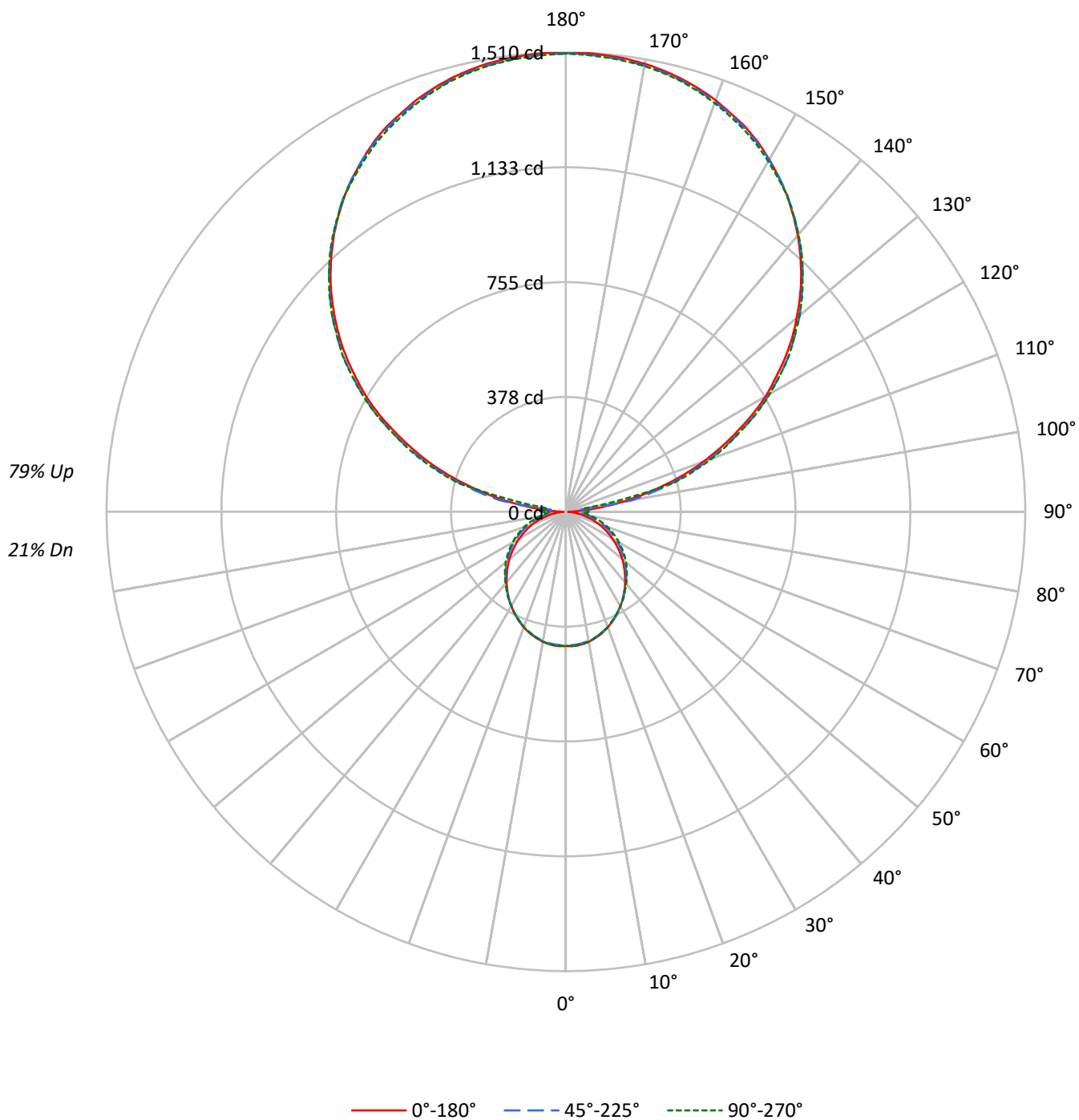
Lumens per Lamp: N/A
Luminaire Lumens: 5997.1 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
Input Current (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

TEST NUMBER: P1027832

CATALOG NUMBER: S125DIP-B375D1270UB50-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1027832

CATALOG NUMBER: S125DIP-B375D1270UB50-4F0-XX-W2A-D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	100	100	100	100	89	89	89	89	67	67	67	48	48	48	30	30	30	30	30	21
1	91	87	83	79	80	77	74	71	58	56	54	41	40	39	26	25	25	25	25	17
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	23	21	20	20	20	14
3	75	66	59	54	66	59	53	48	45	41	37	32	29	27	20	18	17	17	17	12
4	69	58	51	45	61	52	45	40	40	35	32	28	25	23	18	16	15	15	15	10
5	63	52	44	38	55	46	39	34	35	31	27	25	22	20	16	14	13	13	13	9
6	58	46	38	33	51	41	34	30	32	27	23	23	20	17	14	13	11	11	11	8
7	53	42	34	29	47	37	30	26	28	24	20	21	17	15	13	11	10	10	10	7
8	49	37	30	25	43	33	27	23	26	21	18	19	16	13	12	10	9	9	9	6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	8	8	5
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	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

TEST NUMBER: P1027832

CATALOG NUMBER: S125DIP-B375D1270UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.7
10°-20°	118.5	2.0
20°-30°	176.3	2.9
30°-40°	208.8	3.5
40°-50°	215.8	3.6
50°-60°	198.8	3.3
60°-70°	160.7	2.7
70°-80°	107.6	1.8
80°-90°	57.8	1.0
90°-100°	82.5	1.4
100°-110°	363.1	6.1
110°-120°	627.7	10.5
120°-130°	794.7	13.3
130°-140°	849.1	14.2
140°-150°	794.1	13.2
150°-160°	641.7	10.7
160°-170°	415.0	6.9
170°-180°	143.1	2.4
0°-30°	336.6	5.6
0°-40°	545.3	9.1
0°-60°	960.0	16.0
0°-90°	1286.0	21.4
90°-120°	1073.3	17.9
90°-150°	3511.2	58.5
90°-180°	4711.0	78.6
0°-180°	5997.1	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	75	8
95°	69	77	50	65	68	82
105°	332	344	357	365	367	352
115°	619	628	640	643	639	614
125°	878	886	894	897	896	785
135°	1094	1100	1101	1105	1100	844
145°	1268	1270	1270	1273	1268	793
155°	1396	1389	1392	1395	1386	643
165°	1473	1466	1468	1474	1465	416
175°	1506	1500	1501	1510	1500	143
180°	1506	1506	1506	1506	1506	

TEST NUMBER: P1027832

CATALOG NUMBER: S125DIP-B375D1270UB50-4F0-XX-W2A-D

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	30.9	53.4	68.9	75.3
92.5°	27.3	29.8	51.6	66.8	70.9
95°	69.3	77.2	49.5	64.6	67.6
97.5°	124.7	141.8	50.0	61.2	65.5
100°	191.3	203.7	222.0	64.7	62.9
102.5°	258.9	271.6	287.3	298.2	207.0
105°	332.2	343.6	356.6	365.2	367.2
107.5°	407.8	413.8	428.6	438.3	436.5
110°	481.0	486.2	500.5	505.5	509.6

TEST NUMBER: P1027832

CATALOG NUMBER: S125DIP-B375D1270UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	550.2	557.5	570.3	573.6	574.4
115°	619.1	627.6	640.1	643.4	639.3
117.5°	691.3	693.4	708.6	709.3	710.1
120°	758.3	758.4	771.7	776.9	773.9
122.5°	817.0	823.0	833.7	838.3	834.2
125°	878.4	885.8	894.5	896.9	895.7
127.5°	937.2	942.3	948.5	952.8	946.5
130°	990.8	996.0	1003.1	1005.8	1002.3
132.5°	1044.0	1050.7	1051.6	1057.6	1053.8
135°	1094.2	1100.4	1101.3	1104.7	1100.1
137.5°	1141.1	1147.3	1146.9	1152.1	1148.2
140°	1186.4	1188.7	1188.0	1195.0	1190.1
142.5°	1227.7	1228.5	1230.7	1234.6	1229.6
145°	1267.9	1269.8	1269.8	1273.1	1268.1
147.5°	1303.3	1303.3	1304.4	1306.4	1299.4
150°	1336.8	1334.6	1336.8	1339.0	1330.5
152.5°	1369.2	1363.6	1365.8	1368.1	1360.2
155°	1396.0	1389.3	1391.5	1394.9	1385.9
157.5°	1417.2	1413.8	1413.8	1417.2	1408.3
160°	1439.5	1432.8	1433.9	1438.4	1429.5
162.5°	1457.4	1450.7	1451.8	1458.5	1448.5
165°	1473.0	1466.3	1467.5	1474.2	1465.2
167.5°	1485.3	1478.6	1479.7	1487.6	1477.5
170°	1495.4	1487.6	1488.7	1497.6	1487.6
172.5°	1502.1	1494.3	1496.5	1504.3	1494.3
175°	1506.5	1499.8	1501.0	1509.9	1499.8
177.5°	1509.9	1503.2	1504.3	1512.1	1503.2
180°	1506.5	1506.5	1506.5	1506.5	1506.5

(END OF REPORT)