

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: P1027825

Luminaire Tested: S125DIP-B375D1270UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027825
REPORT IS A COMBINATION OF REPORTS P1001926 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

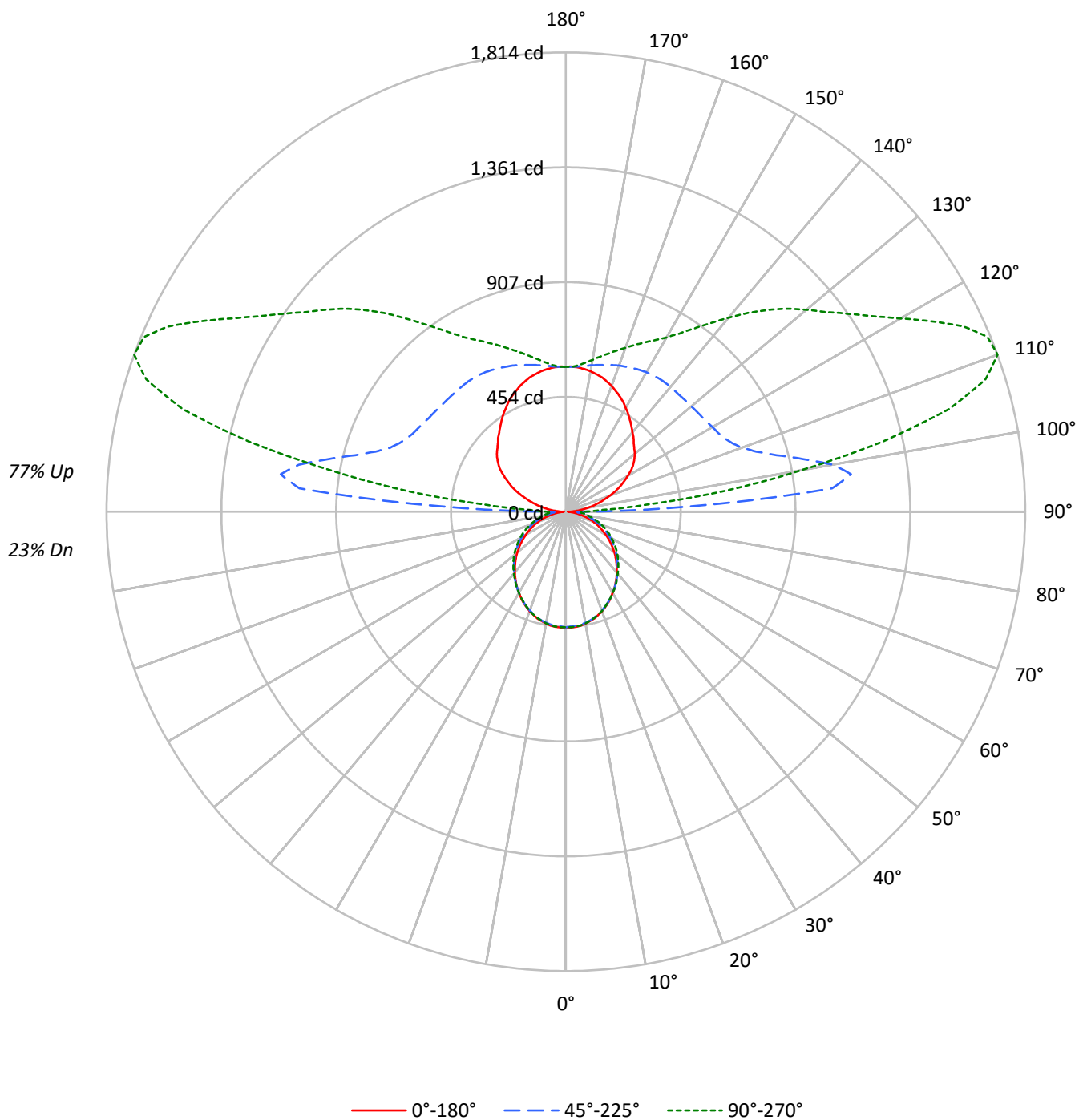
Lumens per Lamp: N/A
Luminaire Lumens: 5725.8 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
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°	2922	2922	2922
5°	2927	2861	2868
10°	2905	2803	2795
15°	2870	2735	2705
20°	2822	2653	2615
25°	2766	2566	2507
30°	2697	2471	2408
35°	2633	2383	2318
40°	2568	2290	2226
45°	2495	2210	2144
50°	2424	2124	2069
55°	2339	2040	1983
60°	2246	1946	1894
65°	2150	1847	1795
70°	2039	1713	1692
75°	1863	1581	1565
80°	1632	1422	1425
85°	1407	1293	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	0.8
10°-20°	122.5	2.1
20°-30°	182.2	3.2
30°-40°	215.8	3.8
40°-50°	223.1	3.9
50°-60°	205.5	3.6
60°-70°	166.1	2.9
70°-80°	111.2	1.9
80°-90°	59.8	1.0
90°-100°	463.6	8.1
100°-110°	919.7	16.1
110°-120°	852.7	14.9
120°-130°	686.1	12.0
130°-140°	548.0	9.6
140°-150°	411.4	7.2
150°-160°	289.1	5.0
160°-170°	170.4	3.0
170°-180°	55.4	1.0
0°-30°	347.9	6.1
0°-40°	563.7	9.8
0°-60°	992.3	17.3
0°-90°	1329.3	23.2
90°-120°	2236.1	39.1
90°-150°	3881.6	67.8
90°-180°	4396.0	76.8
0°-180°	5725.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	455	452	456	455	43
15°	436	436	433	436	434	123
25°	396	397	394	396	394	182
35°	342	346	344	346	346	214
45°	282	287	289	292	293	218
55°	217	224	231	236	238	194
65°	149	160	170	177	179	148
75°	82	94	108	117	119	87
85°	25	39	55	65	68	26
90°	8	32	55	71	77	8
95°	44	130	1056	507	317	44
105°	134	194	862	1682	1567	142
115°	236	287	689	1474	1732	232
125°	325	380	655	1170	1363	289
135°	380	456	643	975	1127	295
145°	442	505	642	802	884	277
155°	503	542	626	707	738	232
165°	550	565	600	637	647	155
175°	572	572	576	583	581	54
180°	573	573	573	573	573	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	456.1	456.1	456.1	456.1	456.1
2.5°	457.5	456.6	453.4	456.6	456.1
5°	456.1	455.2	452.1	455.7	455.2
7.5°	453.0	452.5	449.4	452.5	452.1
10°	448.5	448.5	444.9	448.1	447.6
12.5°	442.3	442.7	440.0	442.3	440.9
15°	435.6	436.0	432.9	435.6	433.8
17.5°	427.1	428.0	424.8	427.1	425.7
20°	417.7	418.6	415.4	416.8	416.8
22.5°	406.9	408.7	405.1	406.9	405.6
25°	395.8	397.1	394.4	396.2	394.0
27.5°	383.7	385.5	382.3	383.7	382.8
30°	369.8	372.5	369.8	370.7	370.3
32.5°	357.3	359.5	357.7	358.6	358.2
35°	342.5	345.7	344.3	345.7	345.7
37.5°	328.2	330.9	330.5	332.3	331.8
40°	313.5	317.1	316.6	318.4	319.3
42.5°	297.4	302.3	303.6	305.9	305.9
45°	282.2	287.1	289.3	292.5	292.9
47.5°	266.5	271.0	274.6	279.0	279.9
50°	250.4	255.3	260.3	265.2	266.5
52.5°	233.4	239.7	246.0	251.3	252.2
55°	216.9	224.0	231.2	236.1	237.9
57.5°	199.9	208.4	216.4	221.8	223.1
60°	182.9	191.8	200.8	207.5	208.8
62.5°	166.4	175.3	185.1	192.7	194.5
65°	149.4	159.6	170.4	177.1	178.9
67.5°	133.7	143.5	154.3	162.3	164.6
70°	116.3	126.6	138.2	146.7	149.4
72.5°	99.3	110.0	123.0	132.4	134.2
75°	82.3	93.9	108.2	117.2	119.4
77.5°	65.7	79.2	92.6	102.4	104.2
80°	50.5	63.9	79.2	89.0	90.8
82.5°	36.7	51.0	66.6	76.0	79.6
85°	24.6	39.4	55.0	64.8	68.4
87.5°	15.7	30.0	45.2	55.5	58.6
90°	8.4	31.8	55.2	71.2	76.7
92.5°	23.6	113.9	495.6	167.6	133.2
95°	43.9	130.0	1055.7	506.7	317.0
97.5°	64.3	138.0	1135.9	878.5	638.1
100°	85.7	154.0	1071.3	1222.8	941.4
102.5°	109.6	173.0	959.8	1513.8	1280.9
105°	134.5	193.6	861.7	1681.8	1566.7
107.5°	158.3	215.9	788.4	1727.9	1737.6
110°	184.4	239.4	739.2	1680.2	1814.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	210.9	263.0	709.7	1582.6	1802.8
115°	235.9	287.0	689.4	1474.0	1732.5
117.5°	258.5	311.6	677.3	1374.8	1628.0
120°	281.6	335.6	668.6	1291.6	1526.3
122.5°	305.5	358.4	661.0	1224.2	1436.4
125°	325.1	380.0	654.6	1169.8	1362.6
127.5°	340.8	401.6	650.5	1122.6	1295.0
130°	355.8	422.4	646.9	1075.2	1240.8
132.5°	366.9	440.8	645.1	1024.3	1186.6
135°	379.6	455.9	643.3	975.3	1127.0
137.5°	395.8	470.4	643.1	924.4	1064.8
140°	409.2	482.5	642.9	877.6	999.5
142.5°	425.3	493.6	643.2	837.1	938.8
145°	441.5	505.2	642.0	801.8	883.9
147.5°	458.4	515.6	639.7	771.6	834.3
150°	473.4	524.8	636.2	747.1	794.8
152.5°	489.6	534.0	631.6	726.9	764.4
155°	503.4	541.6	625.8	707.2	737.8
157.5°	516.1	549.0	620.1	688.8	713.6
160°	528.8	554.8	614.3	670.3	689.3
162.5°	539.2	560.6	607.4	653.6	667.4
165°	549.6	564.7	600.4	636.8	646.6
167.5°	556.6	567.0	593.5	621.2	627.0
170°	563.5	569.8	587.7	606.2	609.7
172.5°	568.1	571.0	580.8	594.1	593.5
175°	571.6	571.6	576.2	583.1	580.8
177.5°	573.9	571.6	572.7	576.2	572.7
180°	572.7	572.7	572.7	572.7	572.7

(END OF REPORT)