

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: P1027958

Luminaire Tested: S125DIP-B375D850UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027958
REPORT IS A COMBINATION OF REPORTS P1002104 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

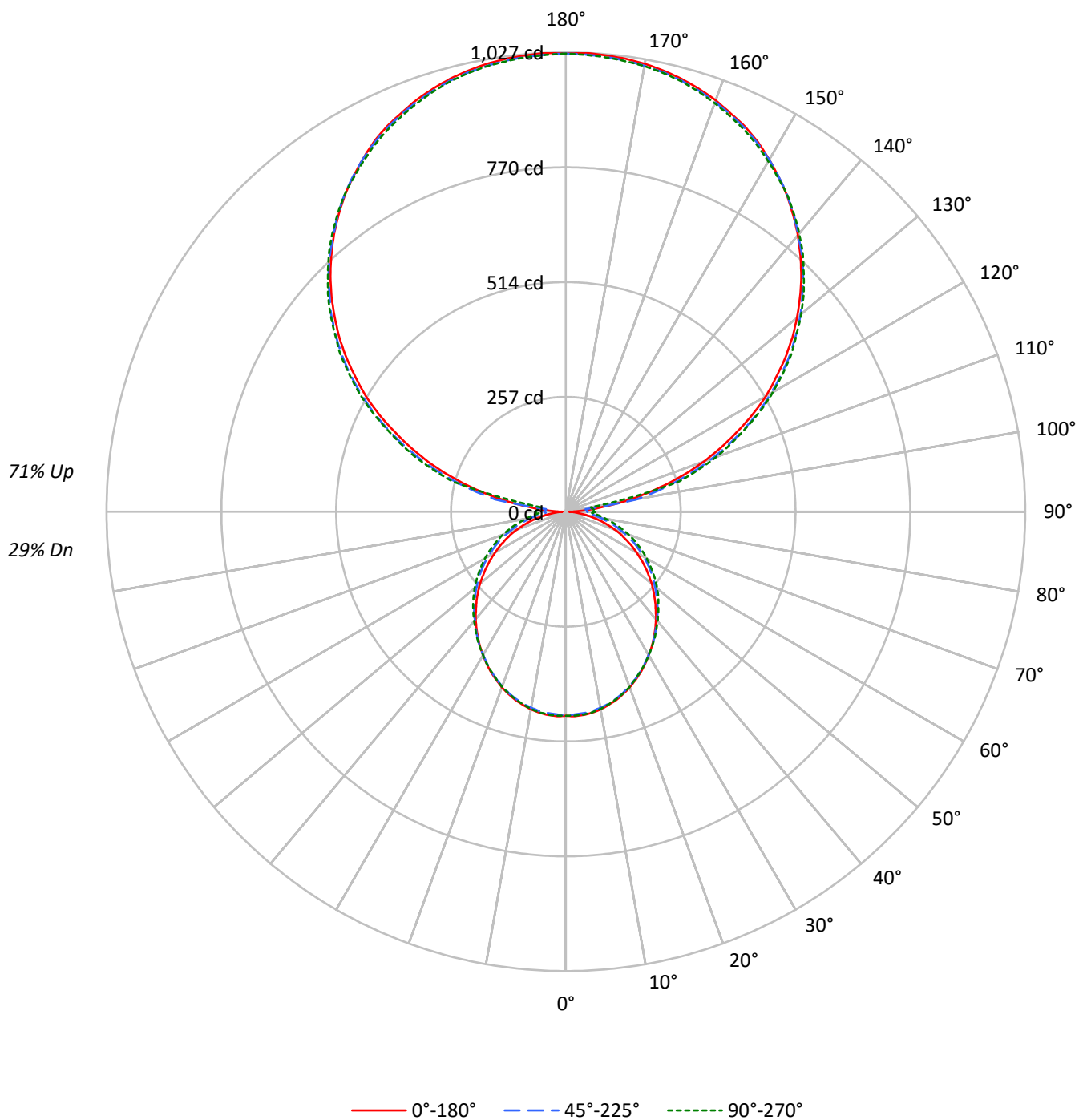
Lumens per Lamp: N/A
Luminaire Lumens: 4562.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	88	84	81	83	79	76	73	62	60	58	46	45	44	32	31	30
2	84	77	71	66	75	69	64	59	54	51	47	40	38	36	28	26	25
3	77	67	60	54	68	60	54	49	48	43	40	36	33	30	25	23	21
4	70	59	52	46	62	53	47	42	42	37	34	32	28	26	22	20	18
5	64	53	45	39	57	47	41	35	37	33	29	28	25	22	20	17	16
6	59	47	39	33	52	42	36	31	34	29	25	25	22	19	18	15	14
7	54	42	35	29	48	38	31	27	30	25	22	23	19	17	16	14	12
8	50	38	31	26	45	35	28	23	28	23	19	21	17	15	15	12	11
9	47	35	27	23	42	31	25	21	25	20	17	19	16	13	14	11	10
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	9

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	0.9
10°-20°	122.5	2.7
20°-30°	182.2	4.0
30°-40°	215.8	4.7
40°-50°	223.1	4.9
50°-60°	205.5	4.5
60°-70°	166.1	3.6
70°-80°	111.2	2.4
80°-90°	59.0	1.3
90°-100°	67.2	1.5
100°-110°	255.1	5.6
110°-120°	432.4	9.5
120°-130°	543.6	11.9
130°-140°	578.8	12.7
140°-150°	540.3	11.8
150°-160°	436.4	9.6
160°-170°	282.3	6.2
170°-180°	97.3	2.1
0°-30°	347.9	7.6
0°-40°	563.7	12.4
0°-60°	992.3	21.8
0°-90°	1328.6	29.1
90°-120°	754.7	16.5
90°-150°	2417.4	53.0
90°-180°	3233.0	70.9
0°-180°	4562.0	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	28	49	63	68	7
95°	49	58	45	58	62	58
105°	227	238	251	260	262	241
115°	422	429	441	446	444	418
125°	598	603	612	616	616	534
135°	744	749	750	754	752	574
145°	862	864	864	867	864	539
155°	949	945	946	949	943	437
165°	1002	997	998	1003	996	283
175°	1025	1020	1021	1027	1020	98
180°	1025	1025	1025	1025	1025	

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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°	8.0	28.3	48.9	63.0	68.3
92.5°	20.7	26.8	47.1	60.7	64.5
95°	49.1	58.4	44.8	58.5	61.6
97.5°	86.7	101.9	44.6	55.4	59.4
100°	131.7	143.4	160.8	57.0	56.7
102.5°	177.7	189.2	204.5	215.1	154.0
105°	227.3	237.5	250.9	259.8	262.3
107.5°	278.6	284.8	299.3	308.9	308.6
110°	328.2	333.6	347.6	353.8	357.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.3	381.7	394.4	399.5	401.1
115°	422.0	428.9	441.2	446.3	444.4
117.5°	470.8	473.1	487.4	490.4	492.0
120°	516.4	517.1	529.6	535.7	534.5
122.5°	556.3	560.5	571.1	576.7	574.9
125°	598.1	602.9	611.9	615.9	616.0
127.5°	637.8	641.2	648.0	653.2	649.9
130°	674.3	677.7	684.7	688.6	687.1
132.5°	710.3	714.9	717.1	723.3	721.3
135°	744.5	748.6	750.2	754.5	752.2
137.5°	776.4	780.5	780.7	786.1	784.1
140°	807.0	808.6	808.3	814.7	812.0
142.5°	835.2	835.5	837.0	841.0	838.3
145°	862.5	863.6	863.6	866.6	863.8
147.5°	886.4	886.4	887.2	888.8	884.4
150°	909.2	907.7	909.2	910.7	905.0
152.5°	931.2	927.4	928.9	930.5	925.1
155°	949.4	944.9	946.4	948.7	942.6
157.5°	963.9	961.6	961.6	963.9	957.8
160°	979.1	974.5	975.3	978.3	972.2
162.5°	991.2	986.7	987.4	992.0	985.1
165°	1001.9	997.3	998.1	1002.6	996.5
167.5°	1010.2	1005.7	1006.4	1011.7	1004.9
170°	1017.0	1011.7	1012.5	1018.6	1011.7
172.5°	1021.6	1016.3	1017.8	1023.1	1016.3
175°	1024.6	1020.1	1020.8	1026.9	1020.1
177.5°	1026.9	1022.4	1023.1	1028.4	1022.4
180°	1024.6	1024.6	1024.6	1024.6	1024.6

(END OF REPORT)