

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: P1027963

Luminaire Tested: S125DIP-B375D850UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027963
REPORT IS A COMBINATION OF REPORTS P1002109 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-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

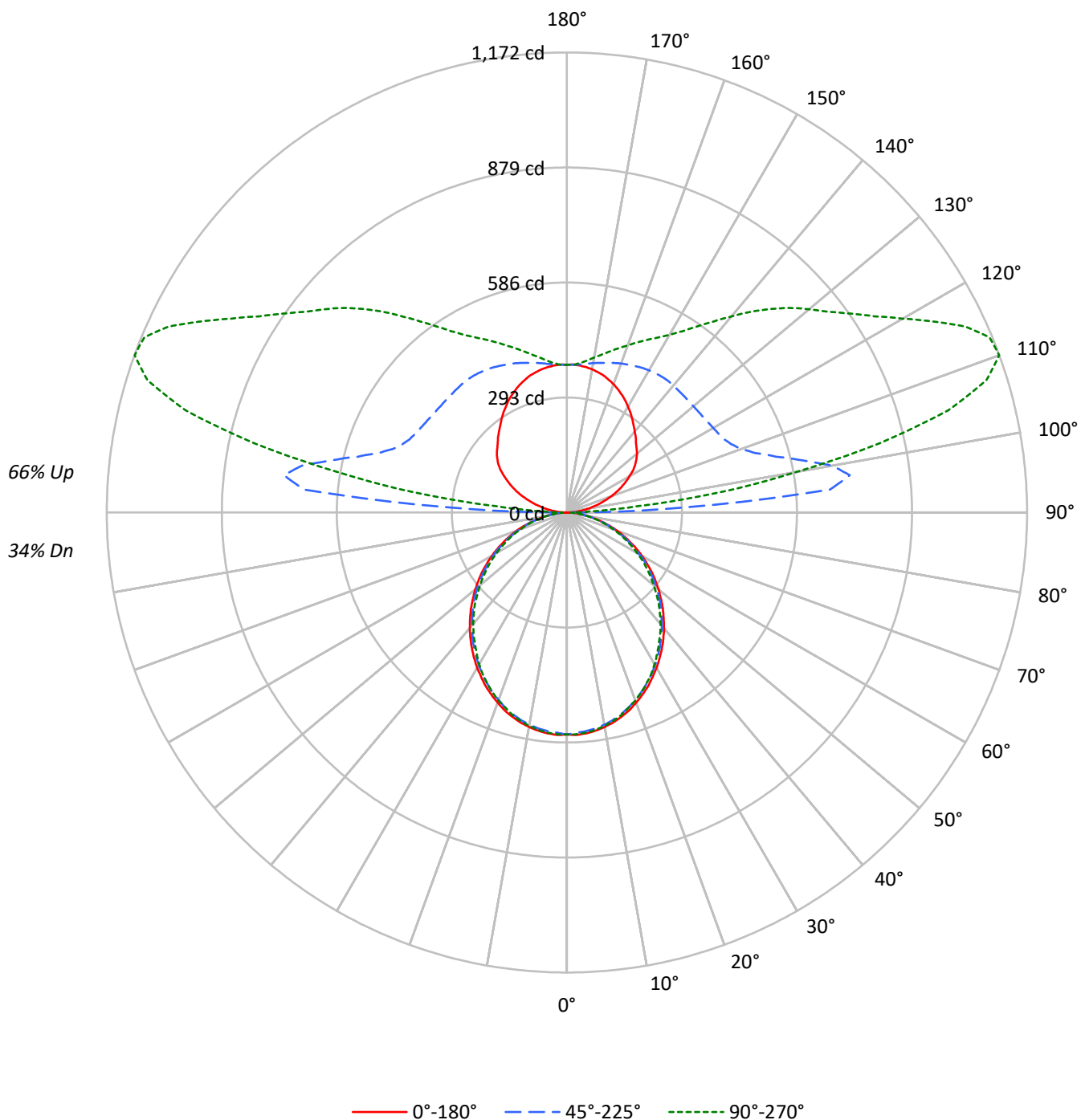
Lumens per Lamp: N/A
Luminaire Lumens: 4307.8 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	37	36	35
2	86	78	73	67	77	71	66	62	57	53	50	44	42	40	32	31	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	34	29	27	25
4	71	61	53	47	64	55	49	43	45	40	36	35	31	29	25	23	22
5	65	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16
7	56	44	36	30	50	40	33	28	32	27	24	25	22	19	19	16	15
8	52	40	32	27	46	36	29	25	29	24	21	23	20	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3624	3540	3546
10°	3594	3458	3447
15°	3547	3361	3331
20°	3482	3249	3198
25°	3414	3126	3055
30°	3331	2998	2904
35°	3243	2864	2736
40°	3152	2722	2586
45°	3053	2585	2426
50°	2945	2427	2241
55°	2838	2255	2070
60°	2709	2073	1872
65°	2555	1862	1666
70°	2400	1620	1429
75°	2137	1334	1155
80°	1823	996	849
85°	1407	590	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.2
10°-20°	150.7	3.5
20°-30°	222.5	5.2
30°-40°	259.6	6.0
40°-50°	260.8	6.1
50°-60°	228.9	5.3
60°-70°	170.5	4.0
70°-80°	97.4	2.3
80°-90°	29.6	0.7
90°-100°	283.6	6.6
100°-110°	589.0	13.7
110°-120°	550.2	12.8
120°-130°	445.2	10.3
130°-140°	357.7	8.3
140°-150°	270.0	6.3
150°-160°	190.1	4.4
160°-170°	112.0	2.6
170°-180°	36.4	0.8
0°-30°	426.7	9.9
0°-40°	686.3	15.9
0°-60°	1176.0	27.3
0°-90°	1473.5	34.2
90°-120°	1422.8	33.0
90°-150°	2495.7	57.9
90°-180°	2834.0	65.8
0°-180°	4307.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	564	559	563	563	54
15°	538	537	532	534	534	152
25°	489	486	480	481	480	225
35°	422	420	414	412	408	264
45°	345	344	338	333	332	266
55°	263	262	256	252	248	235
65°	178	177	172	168	166	176
75°	94	94	91	90	88	100
85°	25	25	25	25	24	27
90°	1	7	12	16	18	3
95°	25	74	673	305	178	26
105°	86	120	550	1084	1006	90
115°	153	185	442	952	1121	151
125°	213	249	424	758	883	189
135°	249	300	421	635	733	193
145°	290	332	422	526	578	182
155°	331	356	412	465	485	152
165°	361	371	395	419	425	102
175°	376	376	379	383	382	36
180°	377	377	377	377	377	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.6	565.6	565.6	565.6	565.6
2.5°	567.3	566.0	561.5	566.0	565.6
5°	564.7	563.8	559.3	563.3	562.9
7.5°	560.6	559.7	554.8	558.8	558.4
10°	554.8	553.9	549.0	552.6	552.1
12.5°	547.7	545.9	541.4	544.1	544.1
15°	538.3	536.9	532.0	534.2	534.2
17.5°	528.4	526.2	521.3	523.9	521.7
20°	515.4	514.5	508.7	511.9	509.6
22.5°	502.5	500.7	495.3	497.1	495.8
25°	488.6	486.4	480.5	481.4	480.1
27.5°	472.5	471.1	465.3	465.8	464.4
30°	456.8	455.5	448.8	447.9	446.5
32.5°	439.8	437.6	431.8	430.0	427.3
35°	421.9	420.1	413.9	411.6	408.1
37.5°	403.6	401.3	395.5	392.4	390.2
40°	384.8	382.6	376.3	372.3	370.9
42.5°	364.7	362.9	356.6	353.0	350.8
45°	345.4	343.6	338.3	332.9	331.5
47.5°	324.4	324.8	318.1	312.8	309.6
50°	304.3	302.9	297.5	291.7	288.6
52.5°	283.7	282.8	277.0	272.0	268.5
55°	263.1	261.7	255.5	251.5	248.3
57.5°	241.2	240.7	235.3	230.0	228.6
60°	220.6	218.8	213.9	209.4	206.3
62.5°	199.1	197.8	193.7	188.8	186.6
65°	177.6	176.7	171.8	167.8	166.0
67.5°	156.6	154.8	151.2	147.7	146.8
70°	136.9	134.7	130.7	128.0	126.2
72.5°	115.4	114.1	111.9	108.7	106.9
75°	94.4	93.5	91.3	89.9	88.1
77.5°	74.7	74.3	72.9	72.0	70.7
80°	56.4	56.4	55.5	55.0	54.1
82.5°	40.3	39.4	39.4	38.5	38.5
85°	24.6	25.1	25.1	24.6	23.7
87.5°	12.1	12.1	11.6	11.6	10.7
90°	0.8	6.8	12.1	16.0	17.5
92.5°	11.4	62.2	302.9	80.8	56.2
95°	25.1	74.0	672.7	305.2	178.4
97.5°	38.7	80.1	726.6	551.2	391.0
100°	53.1	91.9	685.6	779.0	592.2
102.5°	69.1	105.2	613.5	971.8	816.9
105°	85.8	120.0	550.4	1083.8	1006.0
107.5°	101.7	135.5	503.4	1115.3	1119.9
110°	119.2	151.8	472.2	1085.4	1171.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.7	168.2	454.0	1022.7	1165.4
115°	153.4	184.9	441.9	952.4	1120.6
117.5°	168.6	202.0	435.0	888.7	1053.1
120°	183.7	218.3	430.5	835.2	987.8
122.5°	199.7	234.2	426.7	792.2	930.1
125°	212.6	249.0	423.7	757.8	883.0
127.5°	223.2	263.4	422.1	728.1	839.7
130°	233.1	277.2	420.6	698.1	805.6
132.5°	240.7	289.2	420.6	665.8	771.4
135°	249.0	299.6	420.6	635.1	733.4
137.5°	259.7	309.0	421.4	602.8	693.9
140°	268.8	317.0	422.1	573.2	652.2
142.5°	279.4	324.6	422.9	547.8	613.5
145°	290.0	332.2	422.1	525.8	578.5
147.5°	301.4	339.0	420.6	506.8	547.4
150°	311.3	345.0	418.3	491.2	522.4
152.5°	321.9	351.2	415.3	478.0	502.6
155°	331.0	356.1	411.5	465.0	485.2
157.5°	339.4	361.0	407.7	452.9	469.2
160°	347.7	364.8	403.9	440.8	453.3
162.5°	354.6	368.6	399.4	429.8	438.8
165°	361.4	371.2	394.8	418.7	425.2
167.5°	366.0	372.8	390.2	408.5	412.3
170°	370.5	374.6	386.5	398.6	400.9
172.5°	373.5	375.5	381.9	390.6	390.2
175°	375.8	375.8	378.9	383.4	381.9
177.5°	377.3	375.8	376.6	378.9	376.6
180°	376.6	376.6	376.6	376.6	376.6

(END OF REPORT)